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GRAPHIC ARTS BLDG., CALGARY, ALTA.

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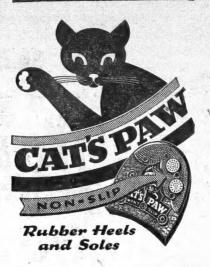
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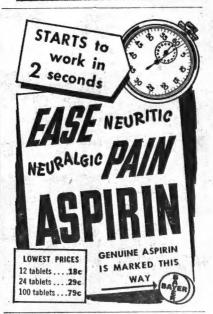
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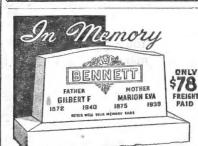
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The Farm and Ranch Editorial Page...

Let's forget about "farm products" and do some thinking about Wheat!

LET'S stop and take a good look at this idea of government supported floor prices for agricultural products. Let us walk slowly around it and examine it from all sides. In doing so, the first step is to notice what is important and what is not, what is an integral part of the engine, so to speak, and what is only chromium trim and ornamentation.

Why are we interested in floor prices, in having the Government stand in readiness to buy what we produce if other buyers back away? So that we will have a highly profitable market for everything we can grow or raise regardless of the need for this production? Or because we are convinced that this nation cannot again tolerate or even survive a repetition of the agricultural calamity of the 1930's?

Our answer is a resounding "Yes!" to the last question, and for reasons which will appeal to every grain grower on the Prairies.

One thing that has muddled our thinking in recent years has been the habit of lumping all farmers and all farm products into one mould. This has led to the making of an omnibus claim for price floors for all farm products, and on behalf of all farmers, regardless of the kind of produce they grow. And that has done a grave disservice to Western grain growers. Prairie grain growers stand alone for several reasons.

They are prisoners of two keepers over which they have no control, foreign markets and the weather. Our wheat must be sold abroad because it cannot be consumed at home. And no way has yet been devised by man by which our production can be controlled.

Over vast areas of Western Canada, wheat must be our main crop because only

wheat can be economically produced on our lands. When we plant the seed in the spring, we have no way of knowing what the demand for our wheat will be in the fall. But plant the seed we must. If we drastically reduce our acreage, in an effort to reduce our outturn, the climate may give us a record-breaking crop. If we increase acreage to meet the needs of hungry people, drouth may sere the crop and reduce outturn.

We are prisoners of the weather cycle, just as the peasants of Egypt were prisoners of the weather in the days of Joseph. And ever since the days of Joseph the world grain crop has fluctuated between periods of glut and periods of scarcity.

Grain, however, is unique among all other foods. It can be stored indefinitely until it is needed. And it is always needed sooner or later.

Nor is this all. Grain is the most important single source of new wealth Canada has. The weight of grain production on the Canadian economy is far greater than that of any other food. A collapse of cheese prices will affect a few thousand farmers in Ontario and Quebec. But the impact will be both light and temporary. They can quickly switch to other markets. A collapse of egg prices will impair the incomes of thousands of farmers. But it will affect fringe income, not main income. The producers of these fringe crops can quickly cut their losses. And the impact on the economy of such collapses is very light indeed. But a collapse of grain prices will bring thousands of Western farmers, the vast majority of them indeed, to the brink of ruin. And it will hit the whole Canadian economy

so heavy a blow that factories will close and unemployment will multiply.

Not only is there no way in which the wheat producer can protect himself, he is vitally affected by Government fiscal and trade policy. Tariff policies adopted for the benefit of other sections of the country may well destroy the markets for his produce. Policies resulting from political pressure from labor, for example, may boost his cost of production to a point where he can no longer earn a living.

Because of the weight of grain in our economy, because of the need for foreign markets, because of the vagaries of the weather, because of the inability of the wheat producer to protect himself, it is imperative that the Government shoulder a major share of the responsibility for marketing our wheat.

On every count, it is imperatively in the nation's interest for the Government to establish adequate floor prices for grain. Grain can be stored and eventually it can be sold and eaten. The problem of getting it onto tables is a technical one which, because it is complicated by Government fiscal policy and trade policy, can be most effectively handled by a Government floor policy.

Many of our Western farm leaders have paid far too little attention to this phase of the problem. They have overlooked important political aspects of the case. So far, too much of the agitation over floor prices has been concerned with products mainly consumed in Canada, which cannot be stored, and about which there is already considerable urban resentment over price.

If in the use of floors under prices of fringe products the Government loses large sums of money, and stored products have to be destroyed, the whole case for floors may be brought into disrepute. Make no mistake about this: Prairie wheat growers have never had the sympathetic support of a majority in the House of Commons. We are not saying that there should not be floor prices for fringe products. But we do say that there is a very grave danger that agitation and uproar over these products may very well seriously damage the unanswerable case of the farmers of the West for grain floor prices which have not yet become an issue.

Organic farming and soil depletion

THE Dominion Experimental Station at Brandon has been conducting a soil survey that ought to shake this country right down to the grass roots. The obvious signs of soil destruction on the Prairies are gradually being noticed. We are becoming more conscious of the damage that bad farming does in causing wind and water erosion. But what of the humus we are mining from the soil like coal miners take coal from the earth? When that humus goes, so goes the fertility of our country. And it is going at an alarming rate.

At Goodlands, Man., the virgin soil has an organic content of 10.68 per cent. Adjacent cultivated land, under a four-year rotation of fallow, wheat, hay and break, and barley, has only 6.58 per cent.

At Hargrave, where an eight-year rotation is practiced, the figures are 12.68 per cent for virgin land and 6.13 per cent for culti-

vated land. At Pipestone, light, sandy cultivated soil has an organic content of only 2.07 per cent, compared to 5.40 per cent for adjacent virgin prairie.

The difference between a fertile acre and wasteland is largely the difference between soil rich in nitrogen and organic matter and one barren of humus. For as long as we have been grain farming in the West, we have been taking humus out of the soil and not replacing it. When the humus is all gone, so will be the productive farms.

Humus can be restored, by the seeding and plowing in of legumes, by the use of manure or both. But with modern machine farming manure is no longer available, which places greater emphasis than ever on the need for using humus restoring crops in our rotations.

In all this we are not alone. In recent years more and more American farmers

are awakening to the need of restoring the organic content to the soil. This has led to a burgeoning new movement. Like many another movement which seeks to overcome difficult problems, the Organic Farming movement tends to go to extremes. zealous are some of its advocates for oldfashioned methods that they have become violent opponents of the use of all chemical fertilizers, pesticides and weedicides. That is unfortunate, for there is much that is good and sound in the Organic Farming approach. Yet even if it does tend to go to extremes, if it gets attention focussed on the need to take vigorous action to restore the humus to our soils it will be well worth while. Certainly, after generations of ignoring our soil, it is a healthy sign that there are soil conservation extremists on the loose.

"To readers of the Farm and Ranch, who think that they can investigate organic farming without becoming extrémists or going hog-wild on the subject, The Organic Farmer is, published in Emmaus, Penn.

Farm and Ranch Editorials

It's a wonderful system we don't think!

FOR sheer gall, we've seen nothing lately to equal the attack of the Canadian Brotherhood of Railway Employees on the Wheat Pools over railway wages.

The C.P.R. applied to the Board of Transport Commissioners to have the Crow's Nest Pass rates on grain abolished. The effect of such action would be double the freight paid on the movement of all western grain to market. The Wheat Pools, representing as they do the producers of the Prairies, appeared before the commission to oppose any such action. In the process of doing so, they pointed out a few home truths.

The Pools pointed out that more than half the cost of railway operation — 57 per cent in 1948—was made up by wages. The railways have been met with recurring demands for higher wages and shorter hours which, to date, the railways have not seen fit to resist. Instead they have applied for higher and higher rates. The Pools suggested that before even contemplating asking for further increases the railways should examine their wage and salary structures.

With a scream of outraged innocence, the C.B.R.E. took after the Pools. If the Pools knew what was good for them they'd mind their own business! What right did the Pools have to interfere in a private fight between a union and its employers over wages?

Only the right of the people who pay the bill to refuse to pay if the bill gets any larger.

It has been made abundantly clear, in the past few years, that the whole cost of increased wages to railway workers has been borne by the people of the West and the Maritimes. As the most important consuming group, western farmers have been saddled with the bulk of the burden. They buy on the basis of cost plus freight. They sell on the basis of price less freight. They pay coming and going. Who, then, has a better right to complaint than western producers?

The C.B.R.E. attack mentioned that the union had supported farmers' efforts to "uphold prices for farm products, even to the length of agreeing to Government subsidies." The Government subsidies that have been paid to farmers are infinitesmal compared to those paid on behalf of subsidized food for urban workers during the war.

During the depression, the incomes of prairie farmers were reduced to the vanishing point and below. The railway workers took two 10 per cent cuts, and had their wages restored to the 1929 level by 1937. For the next seven years Prairie farmers paid these 1929 wages with farm prices far below the 1929 level and, toward the end, with all other costs at least equal to 1929.

In 1948, just under 200,000 railway workers were paid a total of \$512,000,000 in wages. Of that, \$200,000,000 represented increases in wages granted since 1942. By an odd co-incidence, \$200,000,000 is the sum which the Government has appropriated for a floor

under agricultural products. Mr. Gardiner recently said that it would not be possible to get Parliament to appropriate a larger sum. But apparently there is no limit to the appropriation that the railways can request from the producers of the West.

It is a wonderful system! The unions ask the railways for more money. The railways cheerfully grant the request and placidly pass the bill along to us. And when we politely suggest that there can be an end to our ability to pay, we are told to shut up and mind our own business.

Here's one job Ottawa can do right now

IN commenting on our editorial on the need for Canadians to risk their capital in the development of our resources, one reader of the Farm and Ranch had this to say:

"I'm convinced that one of the reasons why farmers have money in the bank today is because they have stopped being suckers. They used to invest in stocks. They were the fall guys for all the stock manipulators, bunco artists and getrich-quick promoters who infested this country. They got burned so badly so often that they have been cured for life. And a good thing, too!"

We'll go a long way with our subscriber, but not all the way. Certainly the evils of stock premotion and manipulation have been, and are still, serious. The heads-I-win, tails-you-lose system of financing Canadian mines has done irreparable damage to the confidence of Canadians in common stock of all kinds.

Yet the fact remains that if this country is to achieve any kind of prosperous growth, Canadians must develop it with their own money. What, then, can be done? The problem is so serious and so complex that no easy solution is possible. Yet we cannot help but feel that some good would come of an investigation of the whole subject by Parliament's Standing Committee on Banking and Commerce. That was once one of our most useful bodies. It can be so again.

The question to which it could seek answers are legion.

What is wrong with our banking system? What has it cost this country to lose character banking? Why, for example, is so much money borrowed outside the banks, from small loan companies and industrial banking companies?

Most Canadians accept the fact that our banking system is superior to the American system. But is it? In the United States, the small town and city banks are owned by the people who reside in the communities. They are managed by local men. By our standards, some of them have been badly managed and depositors have lost money. But what we overlook is the fact that the money that was lost was spent in the commuity, often on projects that had permanent local

value. In the process of being wrong occasionally, the local bankers have made loans that are not only sound and profitable, but resulted in real commuity development, in the establishment of profitable local enterprise.

Is there something seriously wrong with our taxing laws that is retarding enterprise in this country? Do we need changes made that will encourage the people of our farms, towns and cities to invest money in local industry? For example, liberalize regulations so that some of the losses, if losses occur, can be deducted from income? Provision has already been made to allow new companies concessions on corporation taxes. How has that worked out? Can it be profitably extended?

Is it not time to re-examine the investment regulations of insurance companies? Can anything be done to thaw the billions of dollars they have frozen in low income bonds?

Where is the pyramiding re-investment; of profits of American branch plants located in Canada, leading our economy? Have we not reached a stage where restrictions should be imposed on further capital expansion by foreign investors? Should they not be required to share future expansion with Canadian capital?

Some of our readers, no doubt, will become impatient with all this. What, they will want to know, has all this got to do with farmers? Our farmers have got just as large a stake as anyone else in the future prosperity of this country. If the growth of our economy is stifled, it immediately affects the farmer. On one hand it impairs his foreign markets. On the other the market for his domestic produce dwindles. If these questions had been tackled ten years ago, the recurring sieges of "austerity" which so seriously affected our farmers, might not have happened.

From all accounts, Ottawa is in for a rather dull session of Parliament. This gives added weight to the suggestion that the Banking and Commerce committee should be put to work on the most serious economic problem facing Canada today.

Let's introduce Mr. Low to Mr. Manning

OFF hand, we can imagine nothing of less consequence to this society than a speech by Mr. Solon Low, the leader of the Social Credit party in the House of Commons. But when he asks the Dominion Government for aid for schools, we cannot resist calling his attention to the fact that he is talking to the wrong people.

It should have been directed to his party-liners in Alberta. This year the Alberta Government's income from oil lands and royalties will far exceed \$30,000,000. This income from wasting assets should go into permanent capital assets. No finer programme for building up Alberta could be devised than a province-wide, Government financed school construction project. The Alberta Educational Council has urged the Manning Government to undertake just that. It, of course, will pay no attention to the A.E.C. Maybe it would listen to Mr. Low.

Bees may live on honey, but-when they fall in love; that's fatal

SINCE the time of the Queen of Sheba, and for long before that, mankind has prized the honey-bee. Few foods that we eat today have so long a history as honey. But of the thousands of Canadian farmers who keep bees today, how many of them know the details of the life and love of one of nature's most fascinating insects? Well, let's wander into a bee-hive and take a look around. We'll start with the Queen Bee, and a hard working Queen she is.

The Queen bee is larger and more elongated than the other hive inmates, since she was hatched in a special acorn-shaped cell, and fed on "Royal Jelly Depositing eggs, each in a separate cell, she lays at the amazing rate of 2,500 or so in 24 hours. She is the only fully-developed female in the hive.

The Workers

The worker bees, who comprise the main body of the colony of 40,000 or more are really undeveloped females. Thev have nothing to do with the reproductive processes of their race. But each has an allotted task and there are no shirkers. When they are young they tend the larvae in the brood chambers, mount guard at the entrance to prevent marauders such as ants, earwigs, spiders and wasps from entering, clear debris from the floor, fan their wings to maintain ventilation, or serve as attendants of the

When they are strong enough to fly afield, which is about a fortnight after hatching, they embark on the principal duty of a worker, to gather nectar and pollen from the flowers and again, are concerned with building cells and making wax. And so unsparingly do the workers perform these tasks that during the honey season they work themselves to death in three to six weeks.

Their fragile wings become torn and frayed, and at last an evening comes when they fail to get home before nightfall. They fall exhausted and before they can recover, the cool tempera-ture of the night air is upon them. Once chilled they be-come weaker and perish long before the morning sun brings warmth again. During the summer months every hive must lose something like 100 bees a day in this way.

The Drones

But the lot of the drone, who is the male bee, is very different. He lives on the labour of others, does no work in the hive. and gathers neither nectar nor pollen. He is stingless and the only useful function he, or rather one of his number, performs, is the fertilization of the Queen.

Some three or four hundred drones are raised in each colony and they live entirely on the food brought to the hive by the workers. All through the summer these bees, for they are somewhat larger than the workers, can be observed buzzing about near the hive. The workers permit them free access to the stores which they have so laboriously gathered.

But there comes a day in the early Autumn when a cruel fate swiftly descends on these luxurious idlers. The season in which young queens are hatched out and require a mate is in a manner that attracts the drones' attention.

The young Queen is at once surrounded by a crowd of drones who evidently have knowledge that the great moment in the life of one of them has arrived. With swift powerful flight, quite unlike their usual drowsy movements, the strong winged males give immediate pursuit. Up into the blue sky soars the Queen, and after her rush the crowd of suitors, seeking who may gain the fair object of their lives. And at last one quicker than the rest siezes the Queen in swift

so lay infertile eggs and these give rise to drones.

It may be that the Queen can decide at will whether the egg shall be impregnated on passing from her body by the male element which is stored in a receptacle opening to the oviduct, or it may be that this decision is governed by the size of the cell in which the eggs are laid. Drone cells are bigger than worker cells so that possibly the fact that the body of the queen is less restricted when in the act of depositing an egg in the bigger cell may bring about the result by mere mechanical means.

A prolific Queen will lay, dur-ing her life about one and a half million eggs which if placed end to end, in a straight line would stretch about one and three-quarter miles. Such phe-nomenal production is now her sole task till death and she lays an average of two eggs per minute for weeks in succession.

Breeding Details

The larvae of future drones and worker bees only, are fed by the nurse bees with so-called bee milk, a whitish fluid made of pollen and honey worker bees partially digest, and then regurgitate.

The worker grub is weaned from bee-milk after three days and gradually transferred to a coarser diet. The Queen grub, however, continues to receive abundant supplies of "royal abundant supplies of - a concentrated creamiellv" like rich food — for the whole six days of its larval life.

Since it has been found that the development of the female genital organs begins on the third day after hatching, it is clear that this additional feeding provides the stimulus for their growth in the Queen. Similarly the weaning of the worker grubs after three days prevent the organs in their case form reaching maturity.

Laying Workers

This is confirmed by the fact that worker grubs receiving, before they are three days old, the special treatment usually given to Queens, can develop into perfect Queens, but if this is begun after three days, imperfect maturity results. Consequently their eggs all hatch into drones, for unfertilized eggs produce only male (that is drones) and fertilized eggs, females queens or workers).

These laying workers are found in colonies which have become queenless and indicate that the effort to repair the loss of the queen has been made too late. The presence of laying workers can be detected by the haphazard way in which the eggs are distributed in the cells, and by the fact that more than one are sometimes laid in the same cell; also the eggs are frequently found attached to the side instead of to the bottom of the cell, the body of the worker not being long enough to insert them in the latter position.

By PAUL HUXLEY

over. The winter approaches, during which all stores will be urgently required. And so, acting on some inherited impulse, the colony passes the death sentence on the total male population. The drones' one Summer of life is over. They are driven mercilessly from the hive, and left to perish from cold and starvation.

No Mercy

If any single fugitive momentarily escapes and takes refuge in a corner of the hive, he is furiously attacked, his wings bitten off, and his dying remains carried to the entrance and cast forth. All this is performed by worker bees have never participated in such a grisly performance before.

Nuptial Flight

Before this, however, one of the drones must perform the function for which their existence was tolerated all summer. He must mate with the young Queen from the hive. When Queen from the hive. she is ready, the young Queen circles the hive several times

embrace and the crowd of pursuers disperses almost immediately.

But what of the successful he whose swiftness enables him to win the prize for which all sought? Does he return to live a life of conjugal happiness and ease with his royal consort? No. Nature has ordained it tragically different for the price of success for which he and countless others have striven so hard is death — instant death, for in the very act of releasing the Queen from his clasp the drone falls back dead, and spins slowly to the ground, a lifeless corpse.

The Fertile Queen

All heedless of the tragic end of her mate the Queen flies back to the hive where great excitement is manifested on her return. Now at length the continuance of the colony is assured, for by her one mating she can lay fertile eggs for the rest of her life - even if that life be five years. But she can al-

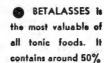


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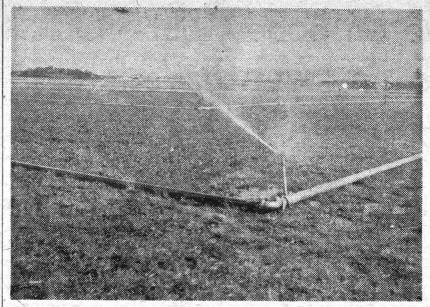
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The Sprinkler Irrigation boom spreads across Saskatchewan

an. In an address to the Field Husbandry Association at Saskatoon recently, E. L. Gray, Superintendent of Water De-velopment, P.F.R.A., reported that 700 units would likely be in use in the Province this year, and that the number might increase to over 1,000 if there was heavy spring runoff in all districts.

Over two hundred miles of pipe will be sold in the Province this year. A year ago only a dozen or so outfits were known to have been in use. This increase is the more remarkable because of the scarcity of equipment; aluminum pipe has not been in ready supply.

Placements are not limited to any particular section of the Province but are distributed fairly uniformly from the International Boundary to as far north as Prince Albert. One outfit has been placed at Pas Trail, beyond Nipawin. Most of the units are small, consisting of a pump and 400 to 500 feet of pipe, but larger units of 2,000 to 3,000 feet of pipe are not uncommon.

Many Uses

To describe the installations "sprinkler" as purely "sprinkler" irrigation, would be somewhat incorrect in many cases the "sprinklers" are not used to distribute the water; only pipe is purchased to carry the water to points of use, from where it is distributed by furrows.

The distribution of the equipment is significant, in its possible effect upon Saskatchewan agriculture. In the Souris River valley of Estevan in the southeastern part of the Prov-ince it has taken hold with market gardeners. This is the market gardeners. This is the banana belt of the central Province, 10,000 acres could be put to special crops near Estevan, long known as the home of prairie nurseries.

PORTABLE aluminum irrequipment has become the corrigation equipment is taking a firm hold in Saskatchew opment which can now support a Co-operative vegetable storage warehouse, built this past season at a cost of nearly \$40,-000 00

> In the northeast at Balcarres and Kelvington it is being used by seed growers. North of Sintaluta Alfred Goodwin has bought the initial equipment for 200 acres. At North Battleford aluminum has been purchased by vegetable producers, and by Institutional Farms.

> There is a cluster of it on the Soo line in the rich wheat area of Wilcox and Milestone; it is being used to pump out the sloughs there. Another cluster is located near Govan, and still another near Rosetown. In the extreme southwest drought prevented its use this past

The difference it makes



season but ranchers are looking to it to increase pasture crops when water is available in their coulees.

The chief appeal of the aluminum to the Saskatchewan farmer is that it is machinery In the Qu'Appelle valley for handling water. The Sasof Regina aluminum katchewan farmer is machin-

ery minded. He has been slow to take up irrigation under the old laborious methods. Despite consistent effort in promoting irrigation in the Province, progress has not been great. Only a limited number of farmers have ever adopted it. Large areas have been prepared for it and are not used at all.

No Alkali Trouble

The portable equipment makes greatest use of the limited water supplies of Saskat-chewan. A little water goes a long way when put through the portable pipes. When applied, too, under control it does not develop alkali conditions. Many of Saskatchewan's so-called irrigable lands are low and flat. To apply water to them by the open ditch is to invite trouble. Such trouble is already appearing in large doses at Val Marie, Eastend, Maple Creek, and Swift Current. The use of the pipe avoids it.

The equipment makes irrigation possible without abusing the land by excessive levelling. The Saskatchewan farmer has learned to be a conservationist. He husbands his valuable few inches of top soil by protecting it with trash cover, by avoiding too much tillage. It has been difficult to sell him on the practice of levelling off the knolls, stripping the high places of the good soil.

Too often he has seen as land abuse the tillage necessary for irrigation by open ditch. Why should the rich top soil of the higher ridges be torn off, and the fertility of these ridges destroyed for several years? The Saskatchewan farmer has seen annual plowing out of ditches in the spring, and the plowing in of them in the fall, and the floating of the fields, a complete reversal of his practices for preventing soil drifting and soil deterioration. He welcomes machinery which makes this unnecessary.

Irrigation in Saskatchewan has been a first class puzzle to many people for many years. The necessity of it and the benefits of it have been too well known, but it has just not caught on. The sale of 700 machine units in one season may indicate that the farmers have only been weiting for the have only been waiting for the right equipment.

"I Saw . . ."

Even animals wish to see their namesakes. This winter a herd of approximately 1,500 ante-lope visited the village of Antelope and fed for 2 or 3 days around Antelope Lake after which they departed for parts unknown.

Mrs. Reg. Hurrell, Gull Lake, Sask.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.

The Wild Oats menace and what to do about it

The spread of wild oats in parkland areas is alarming, particularly as there is no specific means of control. The dockage from this source may amount to more than the grain content of the sample. There are some expedients, such as seeding down for a few years and thus giving the fields a holiday from the growing of wild oats. Then, too, comparatively clean grain can be marketed by deferring harvesting until the wild oats have shattered. This course is not recommended. Unfortunately 2,4-D does not control the weed.

The Dominion Experimental Station at Melfort, Sask., offers some pertinent observations on control of wild oats, as the result of studies made over a tenyear period. They favor strong competition for the wild oats as provided by heavy rates of seeding combined with the use of fertilizers. Oats had the greatest smothering effect, followed by barley and then by wheat.

Delayed seeding of wheat, particularly after fallow, was found to be moderately effective in controlling wild oats but on occasion the yield was reduced and the grain frosted.

Cultivation by rod weeder or duck-foot cultivator 4-5 days after seeding the grain crop was also a control measure.

Black summerfallow and other cultural practices alone were not highly effective. In dry years only one or two growths of wild oats were controlled by these methods.

Good Rotation

At Tisdale the wild oat infestation was increased from 12½ per cent to 25½ per cent in a rotation of fallow, wheat. In another rotation of: (1) Fallow to June 15, then seed to oats for green feed with sweet clover, (2) Hay and break, (3) Fallow to June 15, seed barley, (4) Fallow, (5) Wheat, the infestation was reduced to 0.3 per cent.

Surface tillage was much more effective than ploughing at Paddockwood, where an infesta-

The spread of wild oats in tion of 23 per cent was reduced to 5.8 per cent in barley after particularly as there is no specific means of control. The dockage from this source may amount to more than the grain tion of 23 per cent was reduced to 5.8 per cent in barley after wheat following surface tillage, as compared with 17.2 per cent wild oats in the barley after ploughing the wheat stubble.

The Dominion Experimental Farm at Brandon has about concluded that it is impossible to keep wild oats under control unless the rotation has one or two years of grass. According to this observation grass crops are essential to practical control measures.

Control measures should take into consideration the fact that a small percentage of wild oats will germinate somewhat readily but most of them remain dormant regardless of weather conditions until something occurs to injure the seed coat or break down its protective covering. For this reason very few wild oats germinated on fallowed land from June until the end of the summer but appear in quantity the following spring.

Burying the seed by deep ploughing or by seeding down virtually places them in cold storage, though over a period of about five years many seeds so placed may rot. Unless this is resorted to it seems reasonable to keep the seeds near the surface and destroy them by shallow tillage.

RECOMMENDATIONS:

1. Use clean seed. Surface tillage is more effective than ploughing. Use rotation providing for at least 2 years of hay, preferably followed by a year of fallow.

2. Use a smother crop seeded at a heavy rate together with fertilizer.

3. Delayed seeding with an early-maturing variety is a satisfactory emergency control measure.

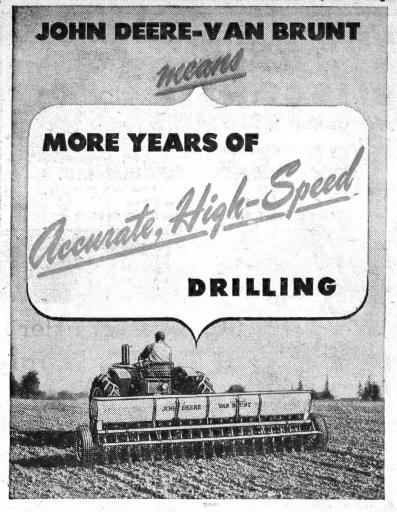
4. Use post-seeding cultivation if compatable with soil drifting prevention.

5. Where possible, delay spring seeding after summerfallow by three weeks.

6. Fall cultivate stubble areas to induce spring growth of wild oats.



"Man! Whatever it is, it's a whopper!"



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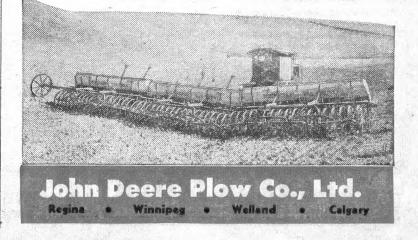
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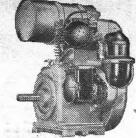
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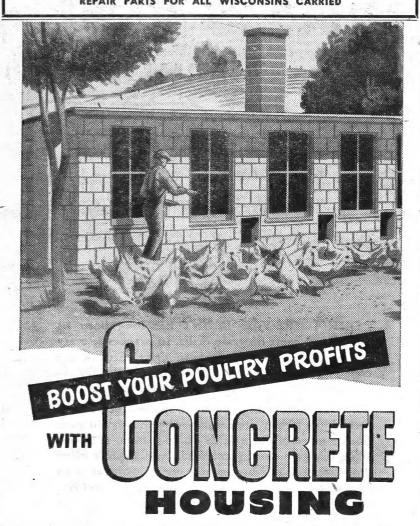


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Farm and Ranch readers re-act to shotgun slaughter of coyotes

Few articles in recent months have aroused the interest that was created by Kerry Wood in our January issue. His attack on the abuses of the coyote hunts provoked readers from near and far to take pen in hand. Some letters went to Mr. Wood directly, others came to the FARM AND RANCH REVIEW. Here is a good sample of what our readers think on the subject.

From H. Hans Aninger, Champion, Alta.

Reading your article re organized wild-life slaughter, I wish to compliment you on your stand against it. Especially I agree thoroughly, that this organized coyote hunting is disgustingly unsportsmanlike. As a matter of fact, I consider this kind of hunting, where the animal has absolutely no chance of escape, as plain murder.

Also your radio talks about Alberta wildlife this fall and winter I enjoyed very much. Couldn't you sometimes say a good word for the eagles? I personally am sure, that they do no harm. In a November issue of the Calgary Herald I saw the picture of two "gentlemen" with an eagle which they shot down from a telephone post. What a remarkable accomplishment!

May I also pass on a suggestion to you. Every summer I put at the edges of my wheatfields poles about 14 - 20 ft. high with a cross stick on top for the hawks. They like to sit there and watch for the gophers running into the wheat, and get most of them. We did this for the falcons and buzzards in Southern Germany, where I come from.

From J. Geiger, Govenlock, Sask.

I certainly do not agree with Mr. Wood on some of his oppositions against coyote hunts, and I think there will be many others who will agree with me. I may be wrong but I don't think that Mr. Wood has any idea of how much damage a pack or even a lone coyote can do. Since the government quit paying bounty, which was a big mistake, the farmers and ran-

chers have to do something against these marauders.

We haven't very many coyotes in our neighborhood, but 30 or 40 miles north of here there are quite a number. Last summer, which I know and can prove, coyotes entered several different chicken coops and killed whole flocks of chickens, of one instance where they killed a calf, this wasn't a small calf by any means.

Your biggest argument, I think is on account of many valuable birds being killed during one of these hunts, especially partridge. I guess you've never seen the damage partridge can do to a potato patch or a feed stack. Sure they are protected by law, but I don't think they should be. I don't believe there are very many of these trigger-happy guys who will shoot at anything that flies, crawls or walks. There may be the odd teen-ager who likes to show how well he can shoot, but I'll wager there isn't very many older men who will enter in such sport.

From Miss Lena Wight, Ottawa, Ont.

I wonder if many people were as shocked as I.

I have not been able to learn whether or not any steps have been taken to stop the atrocities referred to in the article. If you could spare the time to write giving further information it would be very much appreciated.

Having lived in Northern Saskatchewan forty years ago, I know that the coyote is not as black as he is painted.

Some of our beautiful birds are becoming scarce here in Manitoba.

I have a few chickadees that come to my lilac bush by my

Tractor Fishing



This picture of a tractor submerged in a dug-out came from Mrs. Phillip Gettel, Jr., Grenfell, Sask. It won her \$5.

feeding them.

How any one can wantonly kill them I cannot understand. Cruelty to dumb animals and our beautiful birds makes one sick.

I do hope you will have a strong following to back you up in your good work.

From John S. Sewell, Buffalo, Alta.

I certainly agree with your condemnation of trigger happy morons who shoot at any thing and every thing. Your cham-pioning of the mouse and gopher exterminator in the occupied parts of the Province is understandable. In the ranching area of the East and Southeast the coyote wears no halo. My view is as follows: Years ago there were plenty of Jack rabbits to satisfy the coyotes. I have lived in the Southeast part of the province for 50 years. Now rabbits are very scarce and nobody hunting coyotes since the removal of the bounty as hides are valueless, consequently coyotes are very thick and must eat - An-There are people telope who will tell you a coyote cannot catch antelope on bare ground. "They know not what they say". Two of my neighbours saw a coyote chasing an antelope which it caught. This antelope which it caught. This doe was fat, sound, and fast, but the coyote was faster, they went to her rescue but too late. Coyotes also "gang up" and relay on antelope. An aeroplane hunter told me he had often seen 6 or 8 coyotes surrounding a small bunch of antelope waiting for one to make a break, thereby sealing its fate.

Incidentally this rancher (ex C.R.A.F.) shot 30 in a short half day in quite a limited area. He put 400 skins into cold storage because they have a very low price at the present time. This was not the only big bag, as I am reliably informed another gunner got about the same number. My man shot same number. My man shot 22 over a bait without going 100 yards from the house. A neighbor had two coyotes chase an antelope into his garden in daylight, but not just to see the flowers. If this heavy snow partly thaws and then freezes enough to support a coyote but not an antelope the destruction of this graceful animal will be terrible if not extinction—I have seen this hap-

From John B. Heitman, Sundre, Alberta

You scarcely pick up a paper nowadays without seeing an article about coyotes, seeing that I have had fifty-five years experience in trapping and big game hunting, and would like to have a few words to say on the subject.

In referring to the bounty system, everybody seems to be of the opinion that it is a waste

window where I have been of money, in the first place the feeding them. government offered this five dollar bounty to encourage people to hunt and trap, and great numbers took advantage And in order to collect of it. your bounty you have to produce a coyote skin, in that way the government is getting what they pay for. In fact the last year that they paid bounty it amounted to \$146,000 on coyotes alone, that means 29,200 coyotes destroyed.

Where the government made a mistake was by switching from paying bounty in the winter to summer, why they did it is anybody's guess, most of these were pup coyotes. For an example, in the neighbor-hood where I lived, a farmer found a coyote den in his pasture. He notified some men in town who spent their half holidays digging out coyote dens, and they dug out nine pups from this den. The parent coyotes stayed around the neighborhood the rest of the summer and fall, and to my knowledge they destroyed \$200 worth of turkeys and sheep.

This was repeated many times throughout the province. Now if the bounty had been paid in the winter time, it would have cost the government only ten dollars bounty instead of forty-five dollars, and the farmers wouldn't have lost their turkeys and sheep.

From F. J. Franks, Millet, Alberta

Being an interested reader of your stories in the Farm and Ranch paper from Calgary, especially the one about the big coyote hunt. Well, I am one like you, I have not much use for it, as there are too many hunters that would shoot at anything. When I hear men talking over the radio about being such crack shots by shooting a poor old coyote in deep snow about 20 feet away with a shotgun, I don't see anything to brag about.

I don't doubt that they are getting plenty thick, and I have cursed them myself as they took most of our chicken last But there was hardly any rabbits or mice, and they had to have something. Although I would hate to see them wiped out, as it would be lonesome if we did not hear one yip once in a while. I have often told my wife if I was rich I would start up a game sanctuary. have had beaver on my place for the last 16 years. We have spent many evenings in the fall watching them get ready for winter.

"Nor rural sights alone, but rural sounds Exhilarate the spirit, and restore The tone of languid nature.

-Cowper.

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AFTER TWO YEARS' RESEARCH A NEW 2,4-D FORMULATION TRIUMPH



More than 7500 Field Test Plots behind development of NEW Formulation

Pioneers in 2,4-D formulation research, Green Cross scientists proved in 1948 that each of the four ingredients in Agricultural Weed-No-More contributed to the superior effectiveness of the product. Any formulation which lacked one of these ingredients was found to be inferior in effectiveness.

The four ingredients are oil, emulsifier, ester and coupler.

In 1949 this research was continued to determine if an ester product could be produced with a high acid content and at the same time have the advantages of superior formulation.

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A total of 33 different formulations on 7500 test plots involving over 100,000 readings were utilized in developing Weed-No-More "80".

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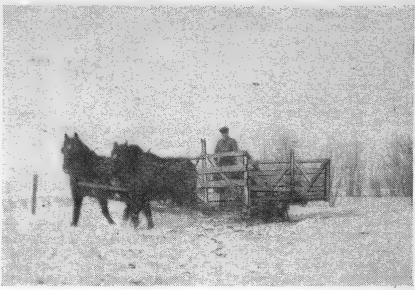
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THE ROYAL BANK OF CANADA

Back to Horses



Mrs. Ethel Kerns of Wimborne, Alta., won \$5 for this shot after a heavy mid-winter snow.

Regardless of the election Britain's dilemma remains

By BEN MALKIN

THE results of the British election are now history. But the economic facts that were a prelude to the election are still with us. Regardless of what party had been returned to office, these facts must play a dominant role in shaping policy. And the economic policies followed by Britain in the next few years are of vital importance to Canada's well-being.

When Britain ended the war, the country's industry for more than 40 years had failed to export sufficient goods to pay for Britain's imports. The difference was made up by "invisible" exports, or money earned through insurance, shipping and other services, investments abroad. If there was still a gap, it expressed itself in unemployment and an extremely low standard of living for hundreds of thousands of jobless men on the dole.

The war caused Britain to convert much of its industry and manpower to wartime uses, thus further reducing its ability to export. Investments abroad were liquidated, cutting down its invisible exports. Finally, a sterling debt of almost \$13,000,000,000 with India and Egypt was contracted.

Therefore since the end of the war Britain has had to:

1. Expand its industry to the point where exports equalled imports.

2. Pay its wartime debts.

The first task is almost done, and Britain's industrial manhour productivity, now 18 per cent higher than at the start of the war, as against 16 percent for the United States, has enabled the country to balance its overall trade figures. But not with the dollar countries. In trying to pay its debts to Egypt and India, Britain has exported so much to these countries that it has not been able to manufacture enough are to remain, but on a limited

goods to send to the United States and Canada. This, coupled with the tariff barriers in the United States, has been a main factor in the dollar shortage which caused Britain to reduce its purchases of food, lumber and other materials from Canada this year. In fact, Britain's payments for wartime debt to India and Egypt have been about equal to the aid the United Kingdom has received under the Marshall Plan.

No Solution in Sight

This economic fact is still with us. Unless a settlement of Britain's wartime debts is reached, possibly upon American initiative, it is difficult to see how the United Kingdom can increase its imports from Canada and the United States. In this respect, therefore, and it is of most immediate concern to Canada, the election made little difference.

While the election was being fought in Britain, a new balance of power in the world was arranged in Moscow following conversations between Premier Stalin of Russia and Mao Tze-Tung, of China. only public announcement of the agreement speaks of a 30year treaty of friendship. But there has been speculation, much of it well-informed, that China and Russia are actually at odds over the disposition of such large and wealthy Chinese territories as Manchuria. This area alone, with 30,000,000 people, more than twice Canada's population, and with substantial resources of oil, iron and coal, is almost worth fighting over.
The Russians,

after first stripping much of Manchuria's industry at the end of the war, became firmly entrenched The rumors were that there. the Chinese Communists wanted them to leave. The speculation now is that the Russians basis. Control of natural resources and political life will reside with the Chinese government.

The Russians are expected to receive some concessions, possibly including uninterrupted use of the railway that cuts across Manchuria to Russian Vladivostok on the Pacific. In return, they will supply China with some machinery, and with technical experts who will help the Chinese build up their industry. In the meantime, a \$300,000,000 trade pact was concluded between the This is not much countries. for two such large nations. Canada alone sells more than that much wheat in a year.

One thing seems certain. Those who had expected the Chinese to break with Russia, as Yugoslavia did, have proved wrong, for the time being at least. China, with its 450,000,000 people, will be a close ally of Russia's and the other cominform nations, bringing the total population toeing the Kremlin line to about 700,000,000. This is a formidable combination which is causing a great deal of anxiety in Western capitals.

The military potentialities of such a union of peoples are frightening. However, there is one comforting factor. China has been at war, one way or another, since 1927. In 22 years there has been so much destruction and so little opportunity for constructive effort that it may take all China's energy to rebuild the country now. This may make China a doubtful ally of Russia, and an unwilling partner in any adventures Moscow may have in mind.

No subsidize for livestock exhibits

REPRESENTATIVES of the Western Canada Associations' of Exhibitions meeting at Saskatoon opposed subsidization of exhibitors in any way because of increased freight costs.

They announced they are of the opinion that there will be a decrease in livestock exhibited due to the cancellation of the special rates by the railways.

In another resolution, the W. C. A. C. appealed to the railways to reconsider the cancellation of special rates on livestock going to exhibitions.

Those attending the meeting were: A. Crawford Frost, vice-president of Calgary Exhibition and Stampede; James Paul, manager of the Edmonton Exhibition and Charles Harlton, chairman of the livestock committee; and T. H. McLeod, manager of Regina Exhibition. Saskatoon Exhibition was represented by Steve MacEachern, manager, President Murray Duncan and Prof. A. Ewen, chairman of the livestock committee. Roy McCannell of Regina, presided.

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Dow Sodium TCA 90% Controls Grasses



This new grass killer offers an effective means of spot-treating local infestations of certain noxious grasses in crop

lands and pastures as well as overall treatment of grasses along roadsides, irrigation and drainage ditches, fence rows and right-ofways. It has been tested and found effective in controlling perennial grasses such as quack (couch or twitch) and Canada Blue. At lower dosages, it will suppress both annual and perennial grasses such as crabgrass, foxtail, chess, bluegrass and redtop, leaving a grass cover where desired.

PEELD, NOTES

Dowfume MC-2 Is New Soil Fumigant

This new soil fumigant (a Methyl Bromide - Chloropicrin mixture) when applied under a gas-proof cover, has given excellent control of weed and grass seeds, roots and stolons, nematodes, white grubs, wireworms and certain soil diseases. It is useful for treating seed beds, propagating beds, hot beds. cold frames, greenhouse ground beds, potting soils, compost, manure-piles and local areas where trees and shrubs are to be planted. At higher dosages, control of certain fungae organisms is assured.

Dowklor Offers Improved Insect Control

Dowklor Chlordane Formulations have proved most effective in controlling many varieties of insect pests infesting crop lands. They are triple-action insecticides, killing insects by direct action, by stomach poisoning, and as a fumigant vapor rising from the spray or dust deposits of treated surfaces. Dowklor formulations do not repel or scatter the insects, nor are they dependent on their feeding habits. They have successfully controlled grasshoppers. army worms, alfalfa weevils and spittle bugs. Available either as a dust or spray.

Further information on any of these products is available at your Dow dealer or write direct to Dow Chemical of Canada, Limited, 204 Richmond St. West, Toronto 1, Canada.

DOW CHEMICAL OF CANADA, LIMITED • REGINA • TORONTO • MONTREAL



Esteron 44. A superior ester weed killer.



Esteron Dust No. : an effective ester dust formulation.



2-4 Dow Weed Killer, formula 40, a proved amine type weed killer.



That Pays of

There's Plenty of Pull in a McCORMICK STANDARD TRACTOR



You get plenty of sturdy, dependable power in a McCormick standard tractor. Power at drawbar, belt and power take-off. You get other advantages, too . . . convenient controls, operating comfort, modern styling, five forward speeds and accessible unit design.

There are five models to choose from, enabling you to select the type and size of tractor best suited to your farm. This includes the rugged, power-packed WD-6 and WD-9—both DIESEL POWERED to give high-level performance at rock-bottom operating and maintenance over.

Your International Harvester Dealer will gladly help analyse your power requirements and make expert recommendations.

INTERNATIONAL HARVESTER COMPANY OF CANADA LIMITED Ontario



HARVESTER

Alberta leads in Angus production

inces in Canada last year in the registration of purebred Aberdeen-Angus cattle, J. P. Sackville of Calgary, secretary of the Canadian Aberdeen-Angus Association, stated when he presented his report at the annual meeting of the association held at Saskatoon.

Of the 5,045 registrations recorded during the year, Alberta had 1,700. Ontario was second with 1,604, Saskatchewan was third with 1,049, and Manitoba had 518. Alberta also led in the number of transfers and exports, no less than 169 head of black cattle being exported to the United States during the vear.

At the end of the year the association had a total individual membership of 768.

Discussing the future of the breed in Canada in general terms, Mr. Sackville expressed the view that, while some drop in farm products prices can be expected, the future of the cattle industry continued fairly bright and he believed that the Angus breed of cattle would go on to new heights during the year, provided that breeders tinued to produce high quality sires as they have done in the

Hereford breeders are optimistic

D. A. Andrew of Calgary, secretary of the Canadian Hereford Association, told the annual meeting at Saskatoon that demand would be maintained and marketings would be as high this year as in 1949.

His reasons for optimism were: prices of beef animals were higher today than in February, 1949; domestic requirements for beef in 1949 were seven per cent higher than in 1948; and Canadian population continued to grow and increase that market.

His only doubts were if herds should be liquidated. Cattle were at the moment being slaughtered at an accelerated rate. During January total marketings of Canadian cattle were 19.6 per cent higher than in the correspond-ing month last year. And, this included an increase in calf slaughterings over the same period, of 40.2 per cent. This extra run in calves was perhaps due to the uneasiness among owners of dairy cattle.

The secretary urged Hereford breeders to keep herds at levels in keeping with available feed stocks. And, those with inferior types of cattle should sell at present advantageous prices and replace with good breeding

Mr. Andrew reported a sharp decrease in the export of regis-

A LBERTA led all other prov- tered Herefords in 1949, but stated the other breeds had the same experience. The export of registered Herefords dropped from 3,297 in 1948 to 579 last year. Compared with this 83 per cent drop, Shorthorns dropped 84.4 per cent and Aberdeen-Angus 81.4 per cent, he said.

Mr. Andrew thought that one result of lifting the embargo on commercial cattle going to the U.S., was that many purebreds now entered as commercial cattle, where formerly they only entered because of their registration certificates.

Shorthorn men want ranchers as judges

W. J. Russell of Unionville, Ont., president of the Canadian Shorthorn Association, said at Saskatoon that cattle breeders as a group are not doing a good

Mr. Russell said they should be doing better in this \$30,000,-000 Canadian business venture.

Whereas large business firms spent millions in research to test their products before going on the market, the Shorthorn in-dustry used inaccurate methods of the eye of a judge or a purchaser in deciding whether a Shorthorn was good or bad for the market.

Mr. Russell suggested that the rancher and the farmer should judge their cattle in the showring, rather than some good breeder. This was demonstrated in the larger bull sales where he often insisted on buying bulls of a type which the breeders were not too anxious to have.

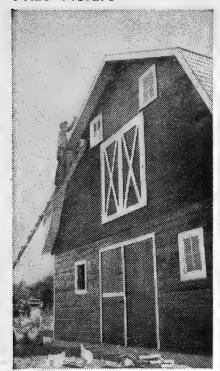
Dogs are best mousers

CAT will play with one mouse while a dog is out catching 75, says Prof. W. Robert Eadie of the Cornell conservation department, in pointing out that millions of dollars worth of damage is done to or-chards by mice every year. Farmers who want to keep free of rodent damage will be wise to install a fleet of terriers and wire guards around all their trees.



"Is all this blasted paper work

Prize Picture



George Almusa, Margo, Sask., took this picture of a barn getting a new coat of paint.

Forestry car starts 1950 tour

THE Canadian Forestry Association's tree planting car has started its two months tour on the Canadian Pacific Railway end of its 1950 itinerary from Saskatoon and Edmonton. It will transfer to the C.N.R. May 24.

It left Saskatoon March 4 for Edmonton where it stays until March 28. From then until Empire Day it will be working its way back to Saskatoon stopping six days in Lloydminster, three days in Wilkie and for one day in most of the other towns.

This is the 30th tour for this classroom on wheels which brings the message and knowhow of shelter belt planting to the farmer right in his own backyard. Given to the association by the Canadian Pacific and maintained by that road the car is hauled free by both railways.

It has travelled 2,225,731 miles and been the meeting hall for 68,223 persons since its start.

"I Saw . . . "

A novel way of reminding motorists to drive with care may be seen on a sign-post when entering the town of Killam, Alberta. It reads: "We like our children, Don't Killam."

Submitted by— Mrs. M. E. Lemke,

Camrose, Alta.

The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.



Thousands of farmers are literally adding acres of profit-earning land to their farms by getting rid of the weeds which cut so heavily into yields and profits.

Their experience proves that, with HER-BATE 2,4-D, yields can be increased by as much as 4 to 6 bushels per acre. And with wheat at present prices that means from \$7.00 to as much as \$10.50 per acre.

Only 36c worth of HERBATE 2,4-D is enough to treat an acre of weed-infested land! How else can you get so big a return for such a small investment?

WILL WEEDS . . . CONSERVE MOISTURE

Weeds steal badly needed moisture. Weeds cut down your yield and increase dockage. They mean more wear and tear on farm machinery, make your harvesting cost higher.

HERBATE 2,4-D has amply proved that it gives dependable, low-cost weed control in growing grain and flax. It kills sensitive weeds outright, keeps even the tough ones, like Russian thistle, pigweed, etc., under control. You need as little as 3/8 to 5/8 of a pint of HERBATE per acre to assure effective weed control.

Buy a brand
you can depend on
ASK YOUR DEALER FOR
HERBATE 2,4-D

COMPARE THE 2,4-D ACID CONTENT OF HERBATE

WITH OTHER BRANDS

When you buy 2,4-D weed killer, see first how much 2,4-D Acid (in ounces or pounds per gallon) it contains. Read the label carefully and compare the 2,4-D Acid content of HERBATE with other brands. It's HERBATE'S high 2,4-D Acid content that makes it so effective and economical.

HERBATE 2,4-D

A product of Canada's largest manufacturer of chemicals

Like "Ceresan" M and many other widelyused pesticides, "HERBATE is a product of the Agricultural Chemicals Division of CANADIAN INDUSTRIES LIMITED, long established leaders in modern pest control products.

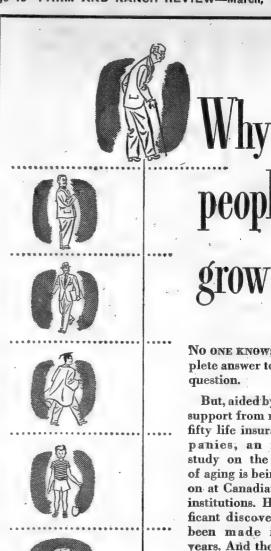


CANADIAN INDUSTRIES LIMITED Agricultural Chemicals Division

ricultural Chemicals Divisio
WINNIPEG

Regina Hallfon idmonton : Mastroel Colgory

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people grow old?

No one knows the complete answer to this vital

But, aided by financial support from more than fifty life insurance companies, an important study on the processes of aging is being carried on at Canadian medical institutions. Here significant discoveries have been made in recent years. And the day may come when further discoveries along these lines will help prolong life for all mankind.

This is only one of the medical projects in which the life insurance companies in Canada have a stake. Their financial aid is also helping science to win the war against infantile paralysis, heart diseases, cancer and tuberculosis . . . as well as promoting better nutrition and public

These, too, are long-range crusades. But, by increasing the number of skilled scientists working at these tasks . . . and by making it possible for many young "men and women in white" to get further training and experience . . . the financial contributions of life insurance companies help bring success sooner.

In all these ways, the life insurance companies in Canada help you to live a longer, healthier

A Helpful Citizen in your Community



When a life insurance representative sells you a policy, he also helps to improve your community. For a large part of each life insurance dollar is put to work, through investments to build schools, bridges. highways, industrial plants and many other projects that create jobs and make for better living.

You share in these improvements,

You share in these improvements, made possible through the efforts of your helpful fellow-citizen—the modern life underwriter!

IFE INSURANCE

. . . Guardian of Canadian Homes

A message from the Life Insurance Companies in Canada and their Representatives

LR-149

Mule Team

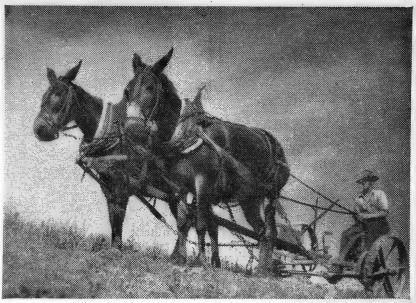


Photo by Clemson

B.C. ROUND-UP

B.C. Producers launch campaigns for better relations with customers

A NOTHER forward step on ing the Interior fruit. the part of growers to reach a better understanding with consumers was made recently when William Embrey, assistant executive officer of B.C. Tree Fruits Ltd., Kelowna, came to Vancouver and addressed the Canadian Association of Consumers.

Mr. Embrey outlined the basic policy of the grower organization, saying that it was the aim to place high-quality, reasonably priced products in the hands of the public, and at the same time return a fair profit to the producer.

He then described the Okanagan, Kootenay and Salmon Arm regions, gave acreages; and then gave a break-down of products including those of Kamloops, Grand Forks, Creston, Erickson and other dis-

But perhaps most important of all, he led his audience through the various orchard operations, through the pack-inghouses to the storage, the railway spurs, and into the retailers in far away cities; and he quoted costs all along the line.

There are several aspects of Mr. Embrey's trip to Vancouver which may well be of great interest to the practicing farmer. First, the grower representative met the city housewife face to face, and explained in detail the cost of placing fresh fruit in her kitchen.

Secondly, such an explana-tion should go a long way to-wards breaking down, or at least tempering the consumer resistance to fruit prices as they stand at present.

fourth, it was the first appearance of Mr. Embrey in his new position, which I understand will see some of his time devoted to various branches of public relations.

The trend toward personal contacts between grower and the press; and grower and the consumer becomes more noticeable every day.

Charles Walls, newly appointed secretary-treasurer, B.C. Federation of Agriculture, now has offices in the Daily Province Building in Vancouver, and one of the most important of his duties is to channel agricultural news to the press.

The organized B.C. potato growers are reaching out for more business in every direction, and much of their activbased on effective ities are publicity.

Charlie Bradbury, Northern Certified Seed Co-operative Association, this year has arranged for a B.C. Potato Show at Oceanside, California, in connection with the annual test plot field day.

B.C. and Alberta are the only two provinces participating in the test plots. A show at Oceanside, by either Americans or Canadians was unthought of until Charlie Bradbury sprung the idea and made the arrangements.

To Bradbury the idea was utter simplicity. There is a big market for top-quality northern grown seed potatoes right across the western states. There is a lot of money down there. Why not ship representative samples down where the buyers gather!

Thirdly, the direct approach was widely publicized in the press; and the story is still gomonthly meetings in various ing the rounds, thus advertis-

country churches. They discuss diseases, pests, packaging, machinery, marketing and consumer reaction. They draw representatives from industries allied to agriculture, and also consumer groups.

They say it is paying dividends.

B.C. Cattlemen called a press conference at the Christmas sale in Kamloops and stated their need for publicity for the fat stock trade and the junior work.

Pacific National Exhibition has appointed Charlie Defieux, veteran newspaper man to post of publicity manager, a much needed move to keep flow of news directed toward the press of the province.

The gap between the scientific laboratory and the farmer is also narrowing. This is partly due to the realization upon the part of scientists that their findings must, wherever possible, be presented in such form as to interest and inform the grower.

Various agencies, such as Science Service are endeavoring to place scientific data before the layman in a manner useful to the dirt farmer; and while such news outlets are not as yet perfect, they are improving with the months.

Speaking before the B.C. Agronomists Association in Vancouver recently, J. S. Allen, supervising district agriculturist of the Kootenays, spoke on extension work, saying that the basic principle of extension is that it must pass the results of research to the farmer.

He added that it was also necessary that the farmer's problems should be given to researchers so that they could start working toward solutions of those problems.

Dr. K. M. King said "The research man should be in closer contact with the extension worker and the farmer. Research is not complete until it reaches the farmer's field. The researcher's results must be proven by practical application in the field."

Dr. William Newton, Saanichton: "The extension department has a vital and important work. Studies should be made as to what land is capable of producing certain crops. There should be a study of local conditions for the most suitable crops."

Dr. C. A. Rowles: "Specialists can eliminate much of the trial and error from land utilization programs. It is necessary to combine the efforts with those working in the region under consideration."

It follows of course that the results of such efforts should be as widely distributed as possible where they are most needed; and in this respect, one delegate reported from Alberta, that steps have been taken in that direction.

Dr. M. W. Cormack said that the department of agriculture in Alberta had appointed an extension man to pass reports on to the farmers; and that as soon as the department was organized, a part of the extension man's duties would be to issue news releases to the press.

The B.C. poultrymen, after losing the British markets, recently decided to increase the local sales through an advertising campaign. They used newspaper space and special retail displays. They were well satisfied with the results.

Turkey breeders also got a lot of publicity with their turkey parade in downtown New Westminster. Hundreds gathered. They not only watched the parade, but followed it right to the market where live birds were on display along with dressed turkeys and the latest methods of packaging.

In their publicity the turkey breeders are trying to break down the idea, wedged firmly in the minds of many consumers, that turkey is a dish for feast days only.

They want the public to get away from that Thanksgiving and Christmas complex.

They are also a bit peeved with cafe managements, who put turkey dinner at the top of the price list. In their public relations the growers are endeavoring to impress upon the people that turkey is not more expensive than other meat.

New, tight-wrap, transparent wrapping for turkey, trimmed of head and feet, is the marketing manner of the future, according to the progressive breeders. They say that in a few years there will be no such thing as a turkey displayed with head and feet.

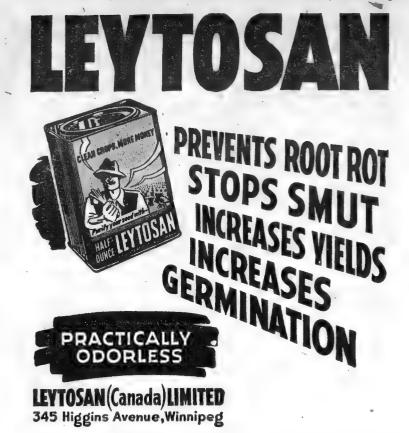
North Okanagan Club asked that a donation be made for a booth at the 50th annual Provincial Exhibition in Armstrong this year. National officials however, stated that they had no funds to finance such projects.

They added that if such a precedent were set, it would result in a deluge of requests from 40 to 50 clubs across the Dominion, all interested in promoting local fairs.

First resolution read to the joint annual meetings of Canadian Jersey Cattle Club and B.C. Jersey Breeders Association in Vancouver, Tuesday, Feb. 14, came from North Okanagan, and called for a Dominion-wide publicity program.

It was the 50th yearly convention of the national club; and 49 meetings had been held in Toronto. Vancouver was the first outside point to be so favored.

Delegates stated they wanted a Canada-wide circulation of photographs and pamphlets to interest prospective breeders in Jersey cattle.



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THE BENNETT GLASS CO. LTD.

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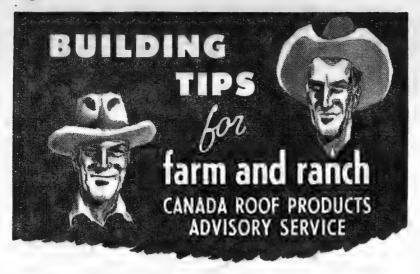
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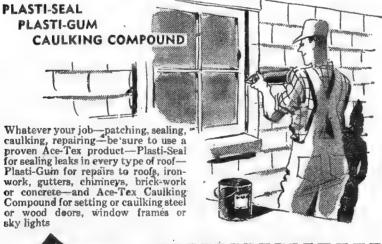
The service offered by your Provincial Treasury Branches is something you should know more about. It is a COMPLETE service in the handling of money—both for personal family use and for the business man too.

A new booklet, Provincial Treasury Branch Service, is now available. You may write for a copy. Or better still—call in at any Treasury Branch. You'll be welcome!











Pussies, fish-poles and whistles herald the arrival of spring

By KERRY WOOD

During March the pussy willows bloom heralding the long-awaited arrival of spring. Children go happily sloshing through the soft snows along creeks and rivers, seeking out the favorite haunts of willows where the shouting youngsters find those first, furry flowers of the new season.

What a marvelous plant is the common willow! This pleasant little shrub is found in almost every corner of Canada, with fifty or more varieties native to our lovely land. Willows vary in size from tiny six-inch mountain plants up to trees that grow forty feet or more in height — such as the Black Willows of Eastern Canada. In the west, our commonest willow is the Salix amygdaloides, or Peachleaf Willow. We also have a goodly representation of Osiers, plus the famous Diamond Willow, or Mackenziana.

The shrub we call the Red Willow is really not a member of the Salix family, being a form of dwarf dogwood. But we have enough varieties of willow to make up for this beautiful omission, and an ax-cut reveals the rich color and character of the pleasant smelling wood. Usually it has a lovely red-brown heart color, encased in a thin wrapping or creamy yellow sapwood.

Have you ever counted the many uses mankind makes of this stream-side shrub?

First, the original inhabitants of Canada found willows planted near their teepees by a benevolent Manitou. Willow bark became Indian string. Twisted willow bark was often used as a rope around Indian lodges, to fasten rafters to roof-trees, while the same bark was frequently used to weave fish-nets and fish-traps. The obvious use of employing the straight, sapling shoots for basket weaving was skilfully practised by the aboriginals; even today, Indians sometimes come around to our town and city homes, offering for sale large and small baskets woven from willow.

In the construction of Indian canoes, willows played an important part, providing the plant ribs, frame-wood, sometimes the curved bow and stern pieces. For making weapons, willows provided springy and excellent bows-for a short period of use. Willow is never a lasting wood when used as an archery bow; but if an Indian lost his regular bow of seasoned chokecherry or saskatoon or juniper, in a few minutes he could use his hand-knife of chipped stone to whittle out a dry willow stave. That bow would shoot willow-sapling arrows at small game to provide the In-dian with food and protection until he got back to camp and could fashion himself another hunting weapon from tougher woods.

Good Arrows

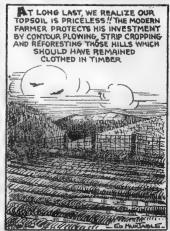
Willow arrows were commonly used by Indians for rough-shooting or practising—especially for shooting water fowl, when it was so easy to lose arrows on slough or marsh or river. In an hour's time an In-

CARLING'S CONSERVATION CORNER









dian could cut himself enough willow shoots to provide rougharrow shafts to last him a year's hunting. The willow-shoots were usually bound tightly together, to keep them straight while they seasoned and dried.

Indian sick-huts, still frequently seen on reservations on prairie and foothills haunts of the various tribes, were invariably constructed of plaint willow wands, the sharpened butts poked into the turf while the top ends were bent over to bind onto another willow, fashioning a round-topped hut measuring six or eight feet in diameter by four feet high. Over this skeleton frame they now stretch sheets of canvas, but in the old days a couple of buffalo skins provided the covering.

The ailing Indian goes inside and strips to the skin, then a friend outside the sick-hut heats rocks on a fire and rolls these stones into the enclosure, where the sick Indian pours water over the hot stones to fill the tiny hut with steam. This is the Indian form of sweat-bath, so popular with Scandinavian peoples everywhere. Indians used the sweat-bath treatment for rheumatism and many other ailments, also for purification before religious ceremonies.

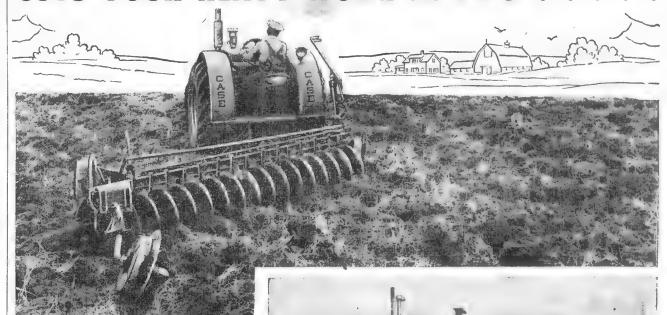
Willows had another portant use for Indians needing medicinal treatment: the bark was boiled and the resultant brew used as a fever-driver. We have since found out that Willow-bark decoctions provide an excellent substitute for Quinine.

The white man's use of willow in this country always started off by employing lengths of the wood for the prosaic fence-post. Willow pickets provide posts that will outlast many other native woods; even in this day of treated posts, willow pickets are still in demand. Next, the west ern pioneer always thought of willow when visions of catching a lusty trout or tasty pickerel came to mind, the stream-side willows providing the fisher-man's pole. While fishing, pole. Young Jim had to have a whistle to blow on, so the father reached for a smooth-barked osier and made a few deft cuts, wetted the bark and gently tapped it, then slipped it off intact and made the inner cut below the mouth-piece and Young Jim went tootling the Willow Whistle up and down the shoreline.

In commercial use the only demand for willow wood is for a rather sad employment; the making of artificial limbs. For this purpose willow cannot be excelled, being light in weight but having a tough wearing texture. We also see willow providing an extra leg for many an elderly man in the form of a handsome walking stick. The twisty roots of willow often provide a right-angled crook that makes an ideal walking stick

As a hobby wood, willow has always been a great favorite.

Start this Spring to Cut Your Costs



Pulling a 10-foot one-way plow as fast as good practice permits, the steady power of the "LA" gets work done fast, helps make the most of short seasons. Adjustments of Case "one-ways" aid in leaving stubble as desired.

New Low-Wheel Case grain drills are easy to fill, accurate in depth control. Famous Seedmeter mechanism drops uniformly in all furrows, at all rates of seeding. The "LA" works fast with largest drills or two drills in gang.



-plow capacity plus high clearance make this Case "DC-4" tractor the choice of many farmers. Its range of field speeds and its quick, easy handling get full capacity from implements of the 3-plow class. Here it is pulling a Case one-way disk plow with seeding attachment.

 Thousands of farmers have found that Case tractors cost less to own because they run years longer, with low upkeep. Their consistent fuel economy, year after year, keeps operating cost low. And now, with high wages for hired help and your own time more precious than ever, Case tractors save many a man-hour by their fast working speeds, eager power and easy handling.

The mighty Model "LA" pulls a 4 or 5-bottom moldboard plow, other implements of similar size. You do heavy field work in half the time, at half the labor cost, required with a 2-plow tractor. Fuel and upkeep per acre lower, too.

The new Case hydraulic implement control, now optional on the "LA," saves you still more time and effort. Touching a little lever raises and lowers plows, drills, combine headers. It's fast on full lift, or slow and slight as you like for accurate depth or height adjustment.

20 Great Tractors

Case tractors are built in four sizes, to fit every acreage. Models include standard four-wheel type, orchard tractors, and all-purpose tractors with adjustable rear tread to fit all row widths and a variety of front-wheel arrangements to suit all crops.

All 20 models have heavy-duty Case-built engines that give eager, flexible power at moderate piston speeds. All have deep-cushioned safety seats, room to stand when you like, and the full-swinging Case drawbar that locks automatically for backing. See your Case dealer about the model that fits your farm start now to get its savings of time, labor, upkeep and operating cost.

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Look at the latest for low-cost farming. Mark machines the interest you—mail to J. I. Case Co., Dept. FR-3 Calgary, Edmonton, Regina, Saskatoon, wannipeg or Toronto. ☐ 4-5 plow "LA" tractor
☐ 3-plow "D" tractor ☐ 2-plow "VA" tractor ☐ Larger 2-plow "S"
☐ One-way disk plows
☐ Seedmeter grain drills

☐ High-clearance "DC-4"
☐ Moldboard tractor plows



Sun Life of Canada Increases Dividends to Policyholders

1949 was a good year for Sun Life. Total benefits paid last year \$114 million. Company largest investor in Canadian homes under National Housing Act.

With \$18 million — a substantial this increase, today's total in force increase over 1949 — allotted for of \$4,187 millions comparing with policyholders' dividends to be paid only \$53 millions in force at the during the current year, the Sun Life Assurance Company of Cantago these 50 years, too, Sun Life policy ada enters its 80th year of public provisions and privileges have been service with a promising outlook for 1950. During the year just past, the total amount of life in-surance which policyholders pursurance which policyholders purchased from the Sun Life exceeded \$372 millions, continuing the unbroken record of selling more new life insurance per annum than any other Canadian life company. Insurance in force with the Sun Life now amounts to \$4,187,000,000, an all-time high. Total income of the Company in 1949 was \$238,000,000.

The 79th Annual Report of the Sun Life of Canada just issued indicates that benefits paid to Sun Life policy-holders and beneficiaries since the Company's first policy was issued in 1871 have now reached \$2,240,000,-1871 have now reached \$2,240,000,000. Last year alone over \$114,000,000 was paid out in benefits. In
recent years the Company has given
particular attention to providing funds
for the construction of homes, and of
its total assets which now exceed
\$1,527,000,000 more than \$83 millions
is invested in Canadian residential
mortagaes mortgages.

At the Annual Meeting held at the Head Office of the Company in Montreal, the President, Arthur B. Wood, reviewed the remarkable progress of life insurance over the last 50 years. In 1900, with a poplast 50 years. In 1900, with a population of just over 5 millions, total life insurance in force in Canada amounted to \$404 millions, or about \$75 per capita. Today the population has reached 13½ millions but life insurance in force has risen to \$14 billions or \$1 045 per risen to \$14 billions, or \$1,045 per head, more than 13 times the 1900 The Sun Life's own business has more than kept pace with to coast.

provisions and privileges have been broadened, available options in-creased and many new benefits introduced. Even before 1900 the Company was the first to introduce the "unconditional" policy, following later with the popular Sun Life non-medical insurance plan. The Company also issued the first Group Pension policy written anywhere in North America, an epoch-marking event in the history of life insurance

One of the outstanding features of Sun Life operations during 1949 was the pronounced increase in the Company's Group business. Hundreds of thousands of office, factory and other employees in business and industry throughout Canada and the United States are today protected by the generous terms of Sun Life Group insurance and annuity plans. The Company's experience and sorvice in this particular and sorvice in the s nuity plans. The Company's experience and service in this particular field is unsurpassed. Today, the importance of Group insurance is recognized by all those concerned with the encouragement and maintenance of good relations between management and labor, and the welfare and social security of the individual em-

The Sun Life story for 1949, including the President's address as delivered at the Annual Meeting, is contained in the Report to Policyholders now on the press. A copy will be sent to every policyholder, while others may obtain the Report on request from the Head Office in Montreal or from any of the branch, group or mortgage offices of the Company from coast

With rural electrification even electric hotbeds are possible

HOTBEDS and cold frames tric hotbed. The size will deare put to excellent use in starting early vegetable crops that are later transplanted to the open ground. A proper understanding of their op-eration is needed before optimum results can be expected.

Heat, caused by the chemical action taking place in fresh manure has long been used in operating hotbeds. However the mechanization of farms has seriously curtailed the supply of manure so that other sources of heat must be found.

Hot water and steam systems have been used, but these are usually too costly for the average home-owner. A small greenhouse would be a better investment.

The recent advances made in the electrification of farm homes makes available a source of heat that is efficient, a n d comparatively clean, cheap. Electrically heated hotbeds are easily operated, ensuring uniform heat conditions for plants. Cost of installation is reasonably cheap and two hundred-fifty kilowat hours of electricity will heat a frame 6 ft. by 6 ft. for a period of sixty days, starting the first week of April. The expenditure will be warranted by the early vegetable and flower plants Further informaproduced. tion may be had by writing Experimental Sta-Dominion tion, Morden, Manitoba.

The Right Spot

The hotbed should be located where natural soil drainage is good and where full exposure to the sun's rays may be had. A position on the south side of dwelling house or other building may be used with advantage for setting up an elecpend on available sash or win-

Standard hotbed sash measures 6 ft. by 3 ft. and a frame having two sash 6 x 3 will be large enough to accommodate the early plants required for an average family. Ordinary storm windows may well take the place of regular sash making the frame to fit the storm windows

The frame should be made about eighteen inches high at the back and twelve inches at the front. One inch rough lumber will serve the purpose but more durable frames are made by using two-inch lumber, or double walls of inch boards with a layer of building paper between. A piece of 2 x 4 should extend across the top of the frame from the low side to the high side at the join of the sash or storm windows. These cross members should be notched into the frame so as to fit flush with the top and allow the sash to slide freely.

It is recommended that a layer of cinders be placed in the bottom of the frame to act as an insulator and ensure good drainage. Where cinders are unobtainable sand or sandy soil can be substituted.

The heating cable is placed level on the insulating material and covered with an inch of Over this is placed 1" mesh wire netting covering the whole frame area to protect the element when soil is being taken out at season's end. Another layer of soil about five inches deep is placed over the wire and the frame is ready for seeding as soon as the seil temperature has warmed to If the frame is to 55° or 60°.



soil can be reduced by half.

Cold Frames

These are frames much the same as regular hotbeds but without artificial heat. They are useful for starting plants that are later transplanted out in the open ground although they obviously cannot be brought into operation as early as hotbeds. It is reasonably safe to put your boxes of plants in cold frames by May first. However the good gardener is always alerted to weather changes and is ready to provide covers of burlap, straw, or other suitable material should frost threaten.

Care of Plants in Frames

Watering and ventilating the cial frames will have to be regularly attended to as the plants are set in them. Unless the gardener is prepared to give regular and intelligent consideration to this he had better not bother with raising plants in hotbeds. A few hours of sunshine on a closed frame, especially where manure has been used to provide heat, will burn up the tender plants and all will be lost.

Ventilation must be given as soon as the early morning sunshine raises the temperature ten degrees or so under the glass.

Simple System

Proper ventilation is easily provided by placing a piece of wood 1" by 2" and four inches long under the frame sash. By placing the wood on edge or flat the amount of airing can be regulated satisfactory. Later on the sash may be removed altogether during the daytime affording abundant fresh air to the plants. Avoid draughts reaching the plants by placing the ventilating props on the lee side of the frame. When days are cloudy and cool little or no ventilation will be necessary and even on sunny days the frame is best closed shortly after mid-afternoon to trap the solar heat, thereby keeping the plants comfortable overnight.

Transplanting

Early seedling plants such as Celery, Pansies should be transplanted as soon as the first tree leaves appear. Suitable sized boxes should be provided so that they do not take up too much room, and they must of course be quite narrow if they are to rest safely on the window sill.

The seedlings are spaced at least two inches apart each way and transplanting is done by means of a sharpened stick a little thicker than pencil size which is used to make the holes and to press the soil firmly about the plant roots.

A good soaking of water is given when the box is filled

Put it this way:

"Botany is the art of insulting flowers in Greek. and Latin."

-Alphonse Karr.

be used for plants already using a fine sprinkler. Newsgrowing in boxes, the layer of paper is placed over the boxes for the first few days to reduce the shock of transplanting, but thereafter the plants will enjoy full sunshine to keep them sturdy.

Sow the following now: Celery — Golden Plume, Ut-

Egg plant — Blackie. Pepper — Harris Earliest. Onion — Sweet Spanish.

Sow Thatcher not Marquis

MARQUIS wheat is no longer recommended for commerproduction anywhere in Canada. Because of it's stem rust susceptibility Marquis has not been grown for many years in areas where this disease is prevalent. Outside the rust areas, particularly in the dry, open plains of Southern Alberta, Marquis has remained popular. A substantial acreage of this variety is still being grown. Why, then, is it no longer recommended for this area? Simply because the experimental evidence shows that in the great majority of cases it is more profitable to grow Thatcher.

Since 1938 ninety-seven tests have been conducted at ten Substations in Southern Alberta in which Marquis and Thatcher were compared when grown side by side. In the average of all tests Thatcher yielded 15 per cent more than Marquis. This is a very substantial difference. Furthermore, this difference in yield occurred at every Station except one showing that the yield difference was consistent over a wide area and may be expected to occur on the great majority of farms within the area. The one exception, mentioned above, was at Drumheller where, on a five-year average, Thatcher was only a few per cent higher in yield than Mar-

When the bushel weights of grain samples from the above were analyzed it was found that, on the average, Thatcher was lower than Marquis. In some cases this made a difference of a grade. Also Thatcher tended to bleach more than Marquis and, occasionally this made a grade These 'occasional difference. losses in grade were always more than made up for by the difference in yield.

was also found that Thatcher shattered less than Marquis especially when high winds hit the crop after it was mature. Because the seed of Thatcher is held tighter it is more difficult to thresh.

experimental show that Thatcher is more profitable than Marquis. While it is occasionally lower in grade and is harder to thresh it is substantially higher yielding, earlier maturing and more resistant to shattering.



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Spring Flood



Getting home from school is a problem when a spring flood takes out a road. Mrs. P. Macleod of Ohaton, Alta., sent us this picture.

Horticultural varieties for Southern Alberta

GREAT many varieties of fruit and vegetables are listed in the catalogues of various seed companies. Some of these varieties are better adapted to Southern Alberta conditions than others. It is, therefore, difficult for the gardener to make the correct selection of varieties.

Listed below are varieties of vegetables and fruits which, by critical testing at the Lethbridge Experimental Station, have been found to be well adapted to this area. There are other varieties, which have been grown successfully in the past, and which may be desired by certain growers, although they do not appear on this

Varieties starred in the table are those suitable for freezing.

VEGETABLES

Beans—Round Pod Kidney Wax *, Tendergreen, Blue Lake * (pole bean),
Blue Lake Black Seeded * (pole bean).

Beets-Detroit Dark Red (storage), Crosby's Egyptian.

Cabbage—Early Vienna (early), Copenhagen Market (mid-season), Penn State Ballhead (late, storage).

Celery-Golden Self Blanching (early), Utah or Salt Lake (late, green).

Carrots—Nantes (early, bunching), Chantenay (late, storage). Cauliflower—Snowball * (early), Snowdrift (late).

Sweet Corn—Golden Early Market (early), Carmelcross (mid-season), Golden Bantam * (late).

Cucumbers-Mincu (pickling), Delcrow or Cubit (slicing).

Eggplant-Blackie.

Lettuce—New York No. 12 and Imperial 456 (head), Grand Rapids (leaf).

Muskmelon-Farnorth.

Onions—Southport Yellow Globe (late, storage), White Barlotta (pickling), Sweet Spanish (late, storage).

Parsley-Paramount.

Peas-Wisconsin Early Sweet * (early), Little Marvel * (early), Lincoln * (mid-season), Stratagem * and Improved Stratagem * (late).

Peppers—Harris Earliest (green), Sweet Yellow.

Potatoes-Irish Cobbler (early), Canus (mid-season), Netted Gem (late).

Pumpkin-Small Sugar, Connecticut Field.

Radish-Icicle (white), French Breakfast (red), Sparkler, Comet.

Rhubarb-Macdonald *, Ruby.

Spinach-Bloomsdale (savory type), King of Denmark (smooth type).

Squash—Golden Hubbard (summer), Green Hubbard * (winter, large).

Tomato-L-3700 selections, Early Chatham, Bounty (self-pruning types), Earliana, Bonny Best (pruning and staking).

Turnip-Laurentian.

Vegetable Marrow-Cocozelle (late, storage).

Watermelon—Early Canada, Sweet Sensation.

FRUITS

Small Fruits.

Strawberry—British Sovereign * (June bearer), Gem (everbearing).
Raspberry—Newburgh *.
Red Currant—New Red Dutch. White Currant—White Dutch.
Black Currant—early Topsy *.
Gooseberry—Pixwell, Champion.

Tree Fruits.

Apple—Haralson, Heyer No. 12, Dr. Bill, Duchess. Apple-crabapple hybrids—Trail, Rescue. Crabapple—Dolgo, Florence, Columbia.

Support the

Red Cross

High field crop values in 1949

Gross value of principal field crops produced on Canadian farms in 1949 is estimated at 1,427 million dollars, down 16 per cent from last year's record of 1,696 million, according to the first estimate of the Dominion Bureau of Statistics. The gross value of Canada's 1949 field crops is the fifth highest in

Put it this way:
"Cherish all your happy
moments, they make a fine cushion for old age."

-Booth Tarkington.

history being exceeded only in the years 1919, 1920, 1947, and 1948. It should be noted, too, that anticipated participation payments on western wheat, oats and barley will place this year's crop at a higher level than is currently indicated.

Lower prices and reduced production of most crops are joint causes of the reduction in value of field crops from the 1948 level. Only for fodder crops and field roots (turnips, mangels, etc.) are average farm prices for all Canada for the first four months of this crop year above the 1948-49 average — although in some provinces for certain other crops are higher than last year. Declines in prices and production of wheat, oats, barley, rye and flax were alone responsible for a total drop in value from 1948 of 237 million dollars. By individual grains the decreases are roughly: wheat 56 million; oats 53 million; barley 47 million; rye 21 million; and flaxseed 60 million dollars. As indicated above, however, participation payments on the first three grains may be expected to reduce these differences. Despite the lowered value of 1949 field crops the current level is still 230 per cent above the low point of 432 million dollars reached in 1931. It is also of interest that the farm value of this year's crops is just slightly above that recorded in 1946, the first full post-war year.

"I Saw ..."

Some time ago on entering a farmer's pasture I noticed a sign on the gate which read:

"This gate hangs well and hinders none.

"Pass through, then shut and travel on."

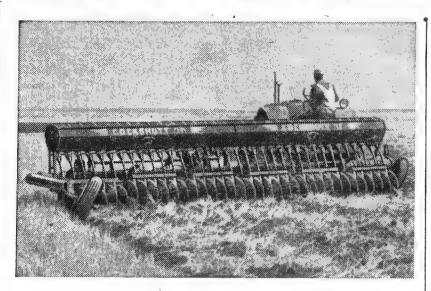
On making enquiries I later found the man had difficulty, before putting up the sign, to get people to close the gate behind them.

His pasture was used for a short cut by many.

Sent in by-Elizabeth Brooks, Coaldale, Alta.

The Farm and Ranch Rereaders who spot the unusual sights on the prairies and send them in to the Editor.

FOR ECONOMY, THE COCKSHUTT "II" ONE WAY DISC HARROW CULTIVATES, SEEDS AND PACKS AT THE SAME TIME



Speeds Up Spring Tillage and Seeding Work, Combats Soil Drifting and Kills Weeds in Same Operation

Where shallow cultivation is used, the Cockshutt "11" One Way Disc Harrow is a real money saver. Designed for modern, mechanized farming, it helps you cover more acres per day at lower cost per acre. Besides putting in your crop by the "once over, all over" method which destroys weeds as it seeds, assuring grain more plant food and moisture, it is ideal for summer fallow cultivation. Weeds and stubble are left partly sticking out to catch and hold moisture, reduce blowing.

3 Sizes — Self Levelling

The "11" One Way comes in 12, 15 and 18-foot cuts with six 18" discs mounted to a section. Each section operates independently so the machine hugs the natural contours of the ground. The result is an even seed bed at moisture level that aids quick germination, vigorous growth and uniform

Famous "Rudder Control"

The "11" One Way has the rear wheel placed far behind the gang -a special Cockshutt feature-to hold the machine to a steady line of draft even in hard ground.

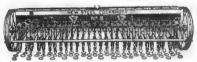
Another special Cockshutt feature Another special Cocksnutt reature is the hand crank that enables discs to be raised if machine becomes "bogged down" in a soft spot and power lift cannot operate. For complete details, drop in and have a chat with your friendly Cockshutt dealer.

Two More Good Reasons Why Cockshutt Seeding



COCKSHUTT "18" PRESS DRILL

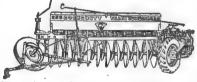
Designed especially for light loose Smooth-running press wheels pack soil firmly over seed to retain moisture, retard blowing. 20- and 24-run sizes.



COCKSHUTT "8" STEEL DRILL

A light running drill with an all-steel frame built like a bridge for extra strength and rigidity. beatable for accurate, controlled seeding. High steel wheel or drop axle rubber tired models. 20-, 24- and 28-run sizes.

"33" Tiller Combine for Heavy Soils—Hard Conditions



Here is another famous Cockshutt Machine, designed, like the "11" One Way, for "once over, all over"

tillage. The "33" is a deluxe model particularly suited to heavier soil and harder conditions where greater weight is required. It features Cockshutt "Rudder Action" rear wheel, fingertip power depth control, Timken roller bearings and felt-protected end thrust gang bearings for light draft, extra fuel economy.



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> Fully one-third of our farm income is obtained from the production of meat animals, and production of meat ani-

mals has had a lot to do with the expansion of our agricultural resources.

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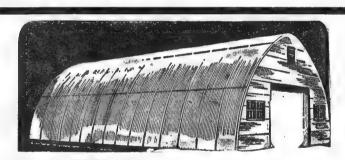
Besides serving the nation with good food the meat packing industry has made valuable contribution to medical science through the supplying of life-saving and health-giving animal glands to the pharmaceutical profession.



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Many a seed catalogue item has roots deep in history

By GILEAN DOUGLAS

THE rotund turnip, the emaciated bean, the socially-ostracized onion are all possessed of a most glamorous past. Thousands of years ago the turnip grew in luxuriant wildness over Great Britain and northern Europe and was most popular with Greeks and Romans of a Beans have been later date. found by archaeologists in ancient tombs of Peru and it is said that the cliff dwellers of the U.S. desert country knew them also. Certainly the Indians did.

The onion has the distinction of being not only one of the oldest vegetables in the world, but also the food most frequently referred to in ancient Eastern literature. It is mentioned several times in the Bible. The first onion is thought to have been in western Asia and some of its numerous descendents proudly adorn Egyptian monuments. From Egypt this world traveller went to England and finally emigrated to this country in the late 18th century.

The leek member of this distinguished family — which also includes chives, garlic and shallots—seems to have travelled most extensively in the good old ante-customs days for it cropped up along the Mediterranean Sea and in Switzerland, as well as being a great favorite with Nero who is said to have had faith in its medicinal quali-

Balkan mountaineers famed for their longevity attribute it to goat's milk, black bread and garlic.

Persian Lettuce

Lettuce was served on the tables of Persian kings as far back as 500 B.C. Asparagus was highly esteemed as a Roman medicine two centuries later, as it had been in still older times by the barbarians of Great Britain and Russia in whose countries it originated. Although a "redskin", the beet

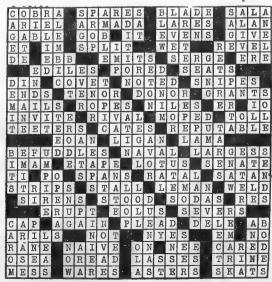
gardens now grew along the southern shore of the Mediterranean Sea and wandered as far east as Persia. It seems to have jaunted into France via Italy around the end of the 16th centurv.

Cabbage, broccoli, Brussels sprouts, collards, kale and kohl rabi had a common ancestor: the wild cabbage which grew along the sea cliffs of the English Channel. Undoubtedly the barbarians of Europe enjoyed its leaves and by the time history begins it was being cultivated in gardens. It was well known before the Ayrian migration of 1700 B.C. and the Roman matron who lived at the time of Pliny had several varieties from which to choose. There is no other vegetable which has produced so many distinct forms as the cabbage and all of them have attained great popularity.

The variety we call Brussels sprouts was first known from its cultivation near Brussels, Belgium, while cauliflower is reputed to have been grown in western Asia from a very early date. It journeyed from Syria to Spain in the 12th century and is mentioned in Moorish writings. Kohl rabi flourished along the Mediterranean and has been referred to by Egyptian authors.

Unfortunately nothing very much has been discovered about the origin of carrots, but they are thought to come from Europe. Although they probably grew wild on the British Isles when the inhabitants were even wilder, they were not re-ceived into polite English garden society until Queen Bess was on the throne. The ancient history of chard is much more definite. It has been traced to the Canary Island and seems to have bobbed up in western Asia and along the Mediterranean. The last-named region evidently attracted sun-worshippers is a native of Africa and Asia. among the vegetables of that The variety we grew in our remote date as much as it does

Solution to last month's puzzle



the modern tourist in search of Swiss lake dwellings of the a tan.

By the modern tourist in search of Swiss lake dwellings of the bronze period. Many ancient

Strange Food

The horse radish is a complete newcomer to cultivated crowds as it has been known for something less than 2000 years—and then we don't know much except that it came from western Asia. The red radish comes from Asia, too, but has a much longer family tree. Like many another vegetable, it arrived in England in the train of those great Elizabethan sea captains and rovers who, in their intervals between sailing and fighting, were introducing English foods to foreign lands and

Put it this way:

"Socialism is workable only in heaven, where it isn't needed, and in hell, where they've got it."

-Cecil Palmer,

bringing back strange, exotic provisions. The reigns of Henry the Eighth, Edward the Sixth, Mary and Elizabeth were halycon days for the epicures of England.

The lowly mustard green has been highly respected in Asia for at least forty centuries, but only in the Southern states has it received any acclaim on this Ditto Okra continent. though used quite extensively in the South for soup — which originated in Africa and entered the United States about a hundred years ago. Agreeable forwith interesteigners an ing past usually received a much warmer welcome here, but mustard at least has only itself to blame. It is so blatantly selfassertive that many farmers wish they could deport it right back to where it came from.

Not so with peas, those mountaineers from central Asia. They were well-known in the East at least 4,000 years ago and have been found in the

bronze period. Many ancient writers have mentioned them and they were deservedly popular with both the Greeks and the Romans. There seems no reason at all - especially to the writer - why their popularity shouldn't continue as long as they do. I feel the same way about a native Peruvian, sweet corn, which can trace its ancestry back at least a hundred thousand years - as testified by a fossilized ear discovered in Peru in 1914. It resembles fairly closely the varieties grown there now.

No one seems to be quite sure where the tomato comes from although it is thought to be an Egyptian. Its name, however, derives from the Aztec word xitomate so it was probably cultivated there first on a large scale and then exported to Europe. The English were once more suspicious of a stranger and labelled the "love apple" poisonous. It was grown only as an ornamental shrub for many years and it was not until nearly 1800 that it was accepted as a vegetable on this continent -where now over a million acres are devoted to its cultiva-

The ancient believed as we do that vegetables are good for the health, but for different reasons. We are interested in the number of vitamins, minerals and animo acids they contain, while oldtime doctors held certain of them up as absolute cure-alls for all sorts of ailments. Peppers, for instance, were supposed to cure colic, toothache, quinsy, malaria, paralysis, the plague and many other diseases. They must have had a hard time living up to their reputation. When they couldn't then pars-ley,—from Sardinia by way of the Mediterranean — came into the picture. It was served at funeral feasts from long before the beginning of history.



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A SHORT STORY

Double-Cross

By JEAN CRAIG

REFLECTED glow from the city lights in the sky reached down to the water's edge and pushed the blackness away from the beach. About thirty yards out, where the night and the water met, the strong, white arms of a swimmer slipped in and out of sight. The arms stopped for a moment, the swimmer trod water, black eyes keenly surveyed the deserted beach the shadows near the warehouse.

The face was cruel. Knifelike, with long, lean jaw-bones thrusting forward, like the mouth of a salmon. The eyes



Couldn't be swum, eh? They didn't know Bronson.

were deep blaćk, with an appearance of redness in their depth from the reflection of the light.

Bronson stared at the beach a moment longer, then he resumed his powerful crawl, and a moment later, his nude body began to grow out of the water. He grinned exultantly. Couldn't be swum, eh? No escaping prisoner could ever escape the currents and the tide in the Bay. They didn't know Bronson.

He went directly to a shed beside the wooden warehouse. He found the bundle of clothes. His muscular body he wiped with the newspapers wrapped around the bundle of clothes. Then he slipped into the dark sports suit, fastened a colorful tie, searched in the pockets till he found the comb; arranged his smooth black hair. He patted the gun, pulled the fedora down over his eyes and began to walk up toward the road.

When he reached it, he turned and thumbed his nose at the faraway black shape of the Island, his white teeth showing in silent laughter. Trying to hold him, Bronson, on an island! A typical, dumb cop's trick.

Everything had worked out perfectly. Keeling had left the clothes where Bronson had told him to. Then, timing his break, Bronson had roused the guards on the north side of the Island where he had told Keeling to be rowing offshore in the darkness. When he had swum away from the other side of the Island, he had heard the noise of the sirens, the shouts of the guards as the searchlights picked up Keeling in the rowboat. He had

known that Keeling would be stupid enough to try to flee and that the machine guns would get him. His body would sink—the guards would think they got him, Bronson. Beautiful.

Meanwhile, thought Bronson, he had a lot of work to catch up on. There was Dillon - he had been getting pretty cocky even before Bronson had got hooked for shooting the cop. And he had practically taken over all the black market gasoline since Bronson had been jugged. Stepped right into Bronson's shoes. Bronson patted the gun in his pocket again. Dillon would have to come down a peg.

Dillon sat behind a big desk -Bronson's desk-and watched him calmly from behind a cloud of cigar smoke. His — Bronson's — cigars. Bronson felt his temples begin to pound with anger.

"Yeah" said Dillon, "Maybe that would be O.K. Maybe not. We don't want you to think you're getting a bad deal — but you're pretty hot right now. The way I been figuring it, you should go away for a while. Take a little rest." He smiled.

Bronson was so mad he forgot to be careful. He stood up, placing his hand on the desk. That young punk!

Wouldn't that be just cozy?

Dillon shrugged, made a little gesture with his hand. Immediately Bronson felt the hard muzzle of a gun in his back. Two of them.

From a long way off, across that wide desk, Dillon smiled again. "Been nice knowing you, Bronson."

He couldn't believe it. Not him, Bronson! He was boss of this outfit! He refused to believe it while they took him downstairs - into the big, black car — one of his cars began to drive out the Beach Road, through the fog.

He talked then, rapidly, the sweat pouring from his face and neck, running icily down his chest, where his heart thudded, frantically. Double-crossed! Double-crossed!

They agreed with him, but they kept driving out the Beach Road, through the fog, and the one-eyed fellow on the left began to unwrap the sawed-off shot-gun.

Then they were standing at the edge of the road, and he was pleading, talking hysterically, throwing them off-guard, while they made ready. The next instant he had smashed the fat man in the stomach, and plunged between the other two toward the Bay. There were curses behind him - they couldn't see clearly in the fog and darkness. Shots. Something red stabbed him in the shoulder - but he

(Continued on page 27)

PIIMPS

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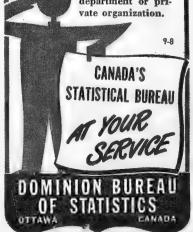
FARM **FACTS**

forecast market conditions

Farm Facts . . . compiled by the Dominion Bureau of Statistics . . . help Canadian businessmen and farmers alike to a better understanding of Canadian market conditions. Thus, you help yourself and your community when you send in prompt, accurate reports to the

Individual reports received by the Bureau are held strictly confidential. It is against the

law to reveal them to any government department or pri-



(Continued from page 26)

didn't feel the hurt. And then the cool waters were closing around him and he felt safe.

He swam straight out for a hundred yards—then he removed his clothes—nearly drowning in the effort. Free, finally, his teeth drew back in a snarl. He'd come through again—he always came through. As he swam, his mind busily began to sketch plans—contacts in Chicago—a few he could trust.

He swam what he thought was parallel with the coast — this damnable fog! Make sure he didn't come back in where they'd be waiting. Dirty double-crossing rats!

He was weak, near the end of his rope, when he finally came into shore. He had a hard time fighting through the surf—scrambling up the shifting rocky bottom toward the beach. Then, through the mist, he saw the black figure against the sky above him, and he was cursing, running, trying to get back into the water.

After that there was the shriek of the siren, the cruel brilliance of the Island searchlights upon him, the tear of the first few machine-gun bullets, and nothing.

Safety first on the farm

Even life on a farm has its dangerous moments, particularly for men, who annually suffer 30,000 out of an estimated 37,200 non-fatal accidents on Canadian farms, according to a report of the Dominion Bureau of Statistics.

Open trap-doors and inadequately protected stairs gave rise to the most frequent injuries and strangely enough these injuries from falls were more of a hazard to young and old persons, than those in the intermediate age groups. Persons from 20 to 40 years of age, however, suffered injury almost as frequently from cutting and piercing tools, or from crushing while handling agricultural ma-chinery. The Prairies, with chinery. about one-third of Canada's farming population, had 60 per cent of the accidents, due to the greater degree of mechanization of agriculture in the West.

Miscellaneous accidents totalled 10,000 and a frequent cause was injury from horses, either by kicking or runaway teams. Also included under this heading were backfiring tractors and other engines, automobile accidents, and poisonous gas.

Fields and woodlots accounted for nearly 60 per cent of the accidents, and barns and outbuildings were the next most common place of accidents, followed by injuries sustained in the farm house.

The Winnipeg GRAIN EXCHANGE speaks for itself!

The worsening condition of overseas markets for agricultural products has revealed the weaknesses of compulsory controls. Western farmers are invited to re-examine the position taken in the matter and expressed again and again by the Winnipeg Grain Exchange, and here re-stated for their earnest consideration:

THE WINNIPEG GRAIN EXCHANGE is opposed to the compulsory method of marketing grain.

THE WINNIPEG GRAIN EXCHANGE advocates floor prices and has done so for fifteen years.

THE WINNIPEG GRAIN EXCHANGE supports a Wheat Board to administer floor prices and to ensure that farmers WHO WISH TO MARKET THEIR GRAIN THROUGH THE BOARD may do so voluntarily—and has done so since 1935.

THE WINNIPEG GRAIN EXCHANGE believes that all producers should have freedom of choice in marketing methods, so that those who wish to deliver to the Wheat Board may do so; and those who wish to sell on the open market, may sell when and where they choose.

Regardless of what others may say—others who have misrepresented the Grain Exchange in the past and will try to do so again—the foregoing clearly sets forth the oft-repeated position of the Winnipeg Grain Exchange.

FARMERS WHO AGREE WITH US ARE URGENTLY INVITED TO WRITE THEIR PROVINCIAL AND FEDERAL MEMBERS OF PARLIAMENT AND EXPRESS THEIR VIEWS.

The

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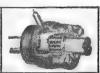
Grain growers also prefer Moline-Monitor Drills because of their

Grain growers also prefer Moline-Monitor Drills because of their dependability and long-life, trouble-free operation. Typical of the better construction are the axle bearings which are extra large and completely enclosed in a self-aligning dustproof housing.

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Planning for early potatoes

Everybody who has a home garden rejoices in having early production of vegetables. Residents of the central prairies usually have new potatoes from their gardens early in August, but it is possible to have them a month earlier.

The procedure for early potatoes used at the Experimental Station, Scott, Sask., says G. D. Matthews, is somewhat as follows: During the second week of April the dormant seed potatoes are selected from the cold cellar and placed in a heated room with a good light in a slatted wooden tray. By the second week in May the green sprouts have reached one-half to one inch in length. About the tenth of May these are cut and planted carefully in a sheltered warm location in the garden which had been worked over early in the spring.

In some years there are indications that frost will occur during the night when leaves are breaking through the ground. As only a small patch the is used, these are covered with sacks or dry soil when frost is expected. Light tillage around the plants during June helps make growth more rapid. In early July when the plants come in flower the first early potatoes will be ready for home use.

During June cool weather often retards rapid growth and an early variety which thrives well under such conditions is the one to use. A number of varieties have been tried and warba has been found the most suitable for early potatoes.

Mix paint well

SOMETIMES that paint job done at home does not prove as satisfactory as was expected. And assuming the surface to be painted was well prepared, the reason is generally because the paint was not properly mixed.

Paint is a complex material consisting of oil, pigment, dryer and thinner. The proportions of each in any can of paint is a matter of careful technical measurement, so that the resulting paint job can do a complete job of protection and beautification. Because of their different densities, all these materials tend to separate when left standing, and the mixture becomes good paint again only after they are completely blended together before

Stirring is the most common way of blending the materials, but it must be thorough until all the pigment, which settles at the bottom of the can, is mixed

in with the liquids. It is not sufficient to stir the paint only before starting the job, it should be mixed from time to time as the painting is done.

Bacon Keeps Longer If Hogs Fed Sugar

BACON made from tired hogs D does not keep as well as bacon from rested hogs. But the remedy is not more rest but more sugar.

That may sound a little un-usual, but food biologists in England report definite findings that bacon made from hogs that were fatigued at the time of killing developed brown colour on the cut surface. This was the result of fatigue and the attending loss of muscle sugar and has brought complaints on the British market.

The researchers have concluded that, while resting the hogs is definitely a solution, it is not nearly as rapid as feeding sugar to hogs eight to 12 hours before slaughtering.

Bluestone treatment for poplar posts

NAMARACK fence posts are becoming increasingly difficult to secure and there is an active search for substitute material. White poplar is abundant in quantity and makes good posts if properly treated.

The Manyberries Station reports satisfactory treatment of green poplar, spruce, pine and willows with bluestone, indicating in particular that treated poplar posts are still in service after 20 years and some lasting as long as 40 years. Untreated poplar rotted off completely in two to four years. The Peace River district receives more rainfall than does southern Alberta, hence treated posts may not last as long as at Manyberrries. No specific data are available on this subject as yet.

Commercial bluestone is used at the rate of about 2½ pounds per gallon of water. Place the solution in a concrete vat, pre-ferably set in the ground. Such a container 4 feet wide, 6 feet in length and 3½ feet deep will handle about 150 - 200 posts. Stand the posts on end and add solution until the butts are covered to a depth of 21/2 to 3 feet. Wooden barrels may also be used for the purpose but bluestone has a corrosive effect on barrel hoops and galvanized containers.

Cut the posts in early spring and treat them before they have a chance to dry out. Sharpen

(Continued on page 29)

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(Continued on page : 8)

the posts and remove the bark from the portion that is to be below ground, as well as a strip of bark the length of the post. Then on a bright day place the posts in the solution for 6 to 12 hours or until the solution rises to the length of the post, as observed on the peeled strip. It is essential that the butt of the post be completely permeated to a point above the ground level.

The importance of potassium iodide

THERE is insufficient iodine in the feed and water supply on Manitoba farms to insure healthy livestock during the winter months. The deficiency of iodine is a common cause of weak and hairless litters of pigs, of goitre in lambs and calves, and joint ill in foals.

Iodized salt in granular form should be used regularly for livestock feeding. For breeding stock an additional allowance of potassium iodide is supplied in the feed daily during the winter months. Two ounces of potassium iodide are dissolved in a gallon of water, and a teaspoonful of this solution is added to the feed or drink for each brood sow daily.

The allowance given brood mares is double this amount daily. For breeding ewes, the addition of two ounces of potassium iodide, dissolved in a small amount of water and mixed with each hundred pounds of salt, will meet their needs. Such preventive measures cost little and they provide protection from ailments due to iodine deficiency. There are very few areas where iodine may be safely left out of winter rations for breeding stock.

Perfect Crime.

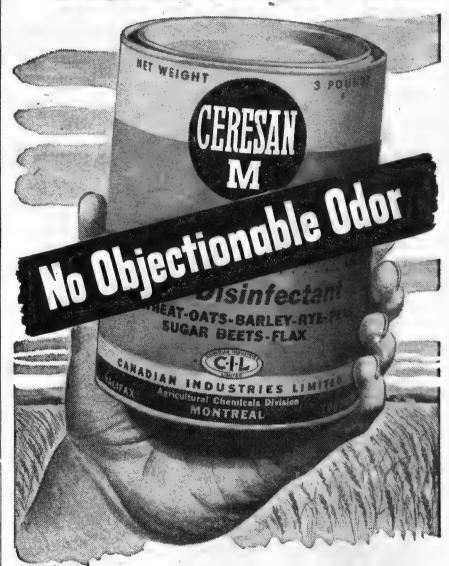
In Electra, Texas, while P. H. Loftin was standing on a street corner someone stole his hat off his head.

Prize picture



Alya Andriatz of Willingdon, Alta, took this picture of her brother Teddy feeding a pair of orphan lambs.

C-I-L Announces The New Seed Disinfectant CBBBBAN



FOR HIGHER YIELDS - BETTER STANDS

"Ceresan" M is low-cost insurance against profit-stealing smuts, seedling blight and root rot. "Ceresan" M gives two-way protection; kills smut on seed and protects against soil-borne diseases—but does not weaken germination. Yes, for only 3¢ to 4¢ per acre, "Ceresan" M gives you higher yields, cleaner grain a real profit-making crop insurance.

Easy to use ... Effective ... Costs Little

"Ceresan" M makes seed treating easy and convenient, too. "Ceresan" M has no objectionable odor, and you can treat seed up to six months before planting time—have it stored and ready for seeding. (Seed should be treated at least 24 hours before seeding.)

Protect your crop ... increase your profits

This year, and every year, protect your crop and increase your profits by treating your seed with "Ceresan" M. Available at your local farm supply store.

"Cereson" M is a new mercurial seed disinfectant replacing the well-known "Cereson". It is equally effective, with the added advantage of being free from objectionable odor.

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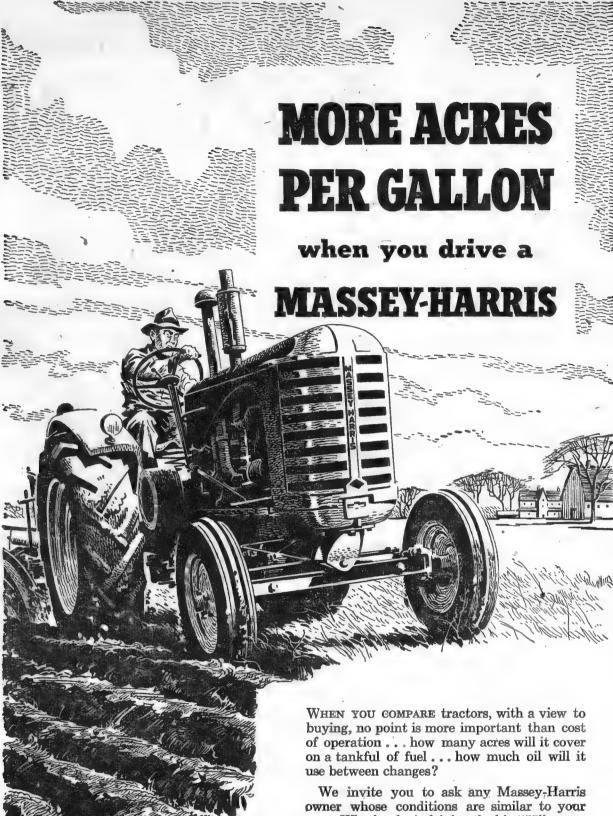
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We invite you to ask any Massey-Harris owner whose conditions are similar to your own. Whether he is driving the big "55" superlugger, or the "Pony", or any of the three sizes in between, he'll tell you one thing for sure... that his fuel and oil cost, per acre, is lower than with any other tractor he ever used.

He'll tell you, too, that you can drive a Massey-Harris tractor all day long without fatigue, because it is easy to start, easy to steer, comfortable to ride.

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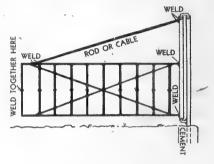
2 SIZES DIESEL POWERED

Welding Hints

By JOE de BOER



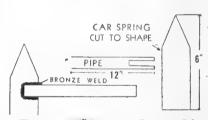
If you happen to have a couple of old steel hayrake wheels in your scrap pile, you can make quite a nice gate from them if you have a cutting torch and welding machine. Cut hub out with cutting torch, next cut rim close to one of the spokes as, in sketch. Straighten rim and for a full-size gate weld two wheels together as shown.



Set one pipe in cement, then make two hinges as illustrated, and use a rod or cable to prevent sagging. Short rods welded in between will reinforce the gate and give it a better finished appearance.



A piece of flexible pipe welded to a funnel will be quite a help when pouring liquid in "hard to get at" places.



Every welder needs a chipping hammer and it can be made by cutting a piece of car spring to the desired shape, then take a short length of small pipe and slot one end and bronze weld one to the other as shown.



"I'm afraid Baxter's late hours are beginning to effect his work."

Here's how field shelterbelts can and do raise protection

PEOPLE who travel the main highway between Calgary and Drumheller will have noticed the well established shelterbelts on the farm of Mr. Craig Pierce, about 12 miles southwest of Drumheller. These shelterbelts were planted about 15 years ago and they divide about 640 acres of Mr. Pierce's farm into strips 20 rods wide running east and west. Particularly during this past season, besides seeing the long rows of green trees, the traveller noticed that the crop adjacent to the shelterbelts was more promising than the crop farther away.

Prior to harvest, samples were taken from the crops in the shelterbelt area to measure the yield and height of crop. From these samples it was found that in the area affected by the trees, wheat yielded approximately 19 bushels per acre more grain and grew from 4 to 5 inches taller than the crop outside the area influenced by the trees. An 80-foot strip of oats immediately adjacent to the shelterbelt yielded 90 bushels per acre while farther its scientists away from the trees the crop was uneven and late and had to be cut for green feed.

The width of the area affected is governed by the height of the shelterbelt on the windward side of the crop. The higher the tree growth the greater was the width of the crop affected. one strip where the windward shelterbelt is about 20 feet high, increased yields were obtained 10 rods from the tree belt.

Increased yields in the shelterbelt area are no doubt caused by increased moisture supplies from trapped snow, and also by reduced evaporation from breaking the sweep of the wind.

Benefits are not obtained without cost. Continued attention is required to grow a good shelterbelt. In the early years, moisture-robbing grass and weeds must be eradicated be-cause the limited prairie moisture is not sufficient to grow weeds, grass, and trees. Soil must not drift into the shelter-Soil belts. The farmers who had soil drifted into their shelterbelts during the windy 'thirties know too well of the difficulties experienced removing the driftsoil from their destroyed shelterbelts.

There is no doubt that established shelterbelts, that are well maintained, will add to the beauty of the farm and increase the returns from the land. The farmer who knows he can devote time and labour to establish and care for tree shelterbelts on his farm should contact the District Agriculturist in his district or write to the Dominion Forest Nursery Station, Indian Head, Saskatchewan, for information regarding the planting and care of shelterPrize picture



This is Alvin Yake, son of Mrs. Clare Yake, of Neeb, Sask., acting as a perch for a pet rooster.

Sask. honors

REGINA. — Place names honoring agricultural scientists will soon appear on Saskatchewan maps.

The place names have been officially adopted by the Canadian Board of Geographical Names, Ottawa, according to A. I. Bereskin, provincial controller of surveys and board representative.

The geographic features named are all in the Amisk Lake region, bordering the pre-Cambrian mining belt to the north and farm belt to the south.

Mr. Bereskin said, "nearly every western grain-grower will be familiar with the scientists and the varieties they produced. They will henceforth be remembered by the following adopted place names, Saunders Lake, Seager Wheeler Lake, Harrington Lake, Goulden Lake, Platt Lake, Apex Lake, Marquis Lake, Rescue Lake, Renown Lake, Red Fife Lake and Red Bobs Lake.

Saunders Lake was named after the late, famed Dr. Charles E. Saunders, discoverer of Marquis and Red Fife wheat.

Seager Wheeler Lake will honor Dr. Seager Wheeler, who came to be known as one of the early World Wheat Kings. introduced Red Bobs wheat into Western Canada — from a few grains of Australian wheat and pioneered the breeding of rust-resistant wheat.

Harrington Lake has been named after Prof. J. B. Harrington, of the agricultural department at the University of Sas-katchewan. Prof. Harrington, with his associates, originated Apex wheat, Regal, Rex and Warrior barley, Royal flax and Valor oats.



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MASTER TURBINE WATER SYSTEM

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Cereal varieties for Southwestern Sask.

WHICH variety of grain w should I be growing?" is a question most farmers ask themselves from time to time. The right decision is an important one, especially in districts where the yields tend to be low. The Saskatchewan Cereal Variety Committee offers a list of recommended varieties each year as a guide to the farmer, who is attempting to answer the above question. These re-commendations are based on the results of several hundred tests grown in the province over a period of years, and have proved to be very useful. This year the following recommendations are made for Southwestern Saskatchewan.

Wheat

Rescue and Thatcher wheat have both yielded well under our conditions. Rescue is particularly suited for those areas where damage by sawflies is a problem, while Thatcher has considerably more resistance to early spring frosts and rootrot damage.

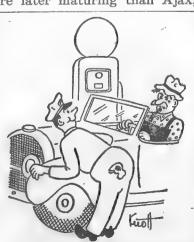
Redman, Apex, and Saunders have not yielded as well as either Rescue or Thatcher, and are not recommended. Redman is best suited for and grown in those areas where leaf rust is occasionally serious. Apex has better kernel colour than Thatcher, and is grown in some local districts where the lower yielding ability is not so important. Saunders is a very early maturing wheat, and is still being tested in Northern Saskatchewan where this is a necessary character.

Durums

Two durum wheats, Stewart and Pelissier, are recommended. Stewart is eligible for the top grades, whereas Pelissier is not eligible for grades above 3 C.W. Pelissier however, is stronger strawed, more sawfly resistant, and yields better than Stewart in dry seasons.

Oats

Ajax oats have the widest adaptation in this part of the province. They are early ma-turing, strong strawed, and give the highest yields, especially in dry years. Fortune oats They are also recommended. are later maturing than Ajax,



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costs Canadian Stockmen ten million dollars each year in hide damage alone. It costs only a few cents to destroy this pest with WARBLE-COP — Don't take a chance.

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but yield well in some districts, particularly in a favourable Varieties such as Exeter and Victory are late maturing, with a tendency towards weak straw. They are not recommended because of their lower yields under our conditions.

Two varieties of feed barley. Titan and Vantage, are recom-mended. Titan replaced Prospect in this area largely because of its superior resistance to loose smut and shattering. Vantage is a relatively new variety, and is recommended here for the first time. It is a little later in maturity, and more susceptible to loose smut than Titan. However, tage yields as well as Titan on thresh. Compana barley, an early, two-rowed variety, is not recommended at the present time. However, it has given a good account of itself in certain districts, in spite of a tendency to be weak in the straw. Neither Plush nor Montcalm are recommended because of late maturity and lower yields.

Flax is not usually an important crop in this area but, where it is grown, the variety Royal has given best results.

Little choice is offered in varieties of rye. Dakold 23 fall rye and Prolific spring rye are the recommended varieties.

detailed information concerning these and other cereal varieties can be obtained from the Experimental Station, or your local Agricultural Representative. A leaflet "Varieties of Grain Crops for Saskatchewan, 1950" is available upon request. Good quality seed of the best variety, sown on well prepared land, is an important step towards successful farming.

Water stands on contoured slope

WHEN after a heavy rain you see the water standing on your sloping cropland, instead of running off and taking some soil with it, you feel like you did right to contour that field.

At least that is the way H. D. Johnson, near Regent, N. Da-kota, feels about it. But contouring isn't the only benefit gained by Johnson who began co-operating with the Slope-Hettinger soil conservation district in 1944.

Following a plan worked out with the help of the U.S. Conservation Service, crops are now grown only on land the conservation survey showed to be suited for crops. Cropland is stubble-mulch tilled in strips, with four rows of corn planted at intervals in the fallow strips.

Land not suited for cultivation that formerly was cropped is now is grass. A systematic pasture operation also is in

Too much pessimism

(From the Lethbridge Herald)

WE'VE been reading some of the "Doleful Dick" news stories which have been coming out of meetings of farm organizations of late in which we are being warned that disaster is right on our heels, and that the goblins'll get you if you don't watch out.

We think the tendency of farm leaders is to overdo the picture. We don't hear much of that kind of talk from the runof-mill farmers and ranchers. A lot of them appear to be more worried for the nonce about how much they owe in income

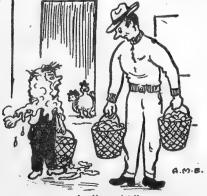
Put it this way:

"Love has the power of making you believe what you would normally treat with the deepest suspicion."

-Marivaux.

taxes. At a farm meeting here the other day the black picture was told after the head of a farm co-operative told of doing more business in 1949 than in any year in the long history of the organization.

Actually farmers in Canada have had four years since the end of the war wholly unexpected prosperity — years during which the farm commodity index was well over the cost-ofliving index or the wholesale price index generally. It is quite true that for part of that time they sold wheat to Canadian consumers for bread at less than the market. It is also true that part of that time they were shut out of the U.S. livestock market and were taking prices eight or ten cents a pound less than they could have got by shipping to U.S. But on the whole they have been really prosperous - so prosperous, in fact, that the general public is somewhat irked when they are told that the bottom is going to fall out of farm prices right now. Surely, farm commodity prices have come down from the peak here in Canada. In United States they have fallen much farther from what was, admittedly, a much higher What we are suggesting is that when farm organizations demand price floors up near the peak they are not likely to get the support of public They are yelling opinion. when there is no wolf.



I slipped!"

Farm Service Facts

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HOW TO MAKE FARM MACHINERY READY FOR TROUBLE-FREE SPRING WORK

Cleaning and thorough lubrication of all moving parts with suitable oils and grease will pay off in reduced draft with consequent fuel saving and in less wear with fewer breakages. When cleaning, it is important to remove all old grease before applying new lubricante

How to Get Quality Work From Your One-Way Disc

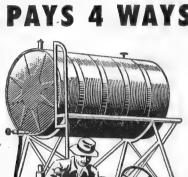
The condition of the one-way disc depends upon the wear of the disc blades, the gang and wheel bearings and the power lift and its linkage. If the discs were not cutting cleanly when operating at shallow depth at the end of last season, they require sharpening. As an even grind at the correct bevel is necessary, it will be more satisfactory to have the sharpening done at a machine shop than to do it yourself.

Preparation of machinery in advance delivered into the bottom of the of spring operations is the best furrows at uniform depth. It pays to insurance against troublesome break-give special attention to the feed rolls. downs, difficult operation, poor Remove the chain drive and turn the tillage and loss of valuable time shaft with a wrench. If it is very stiff, which may reduce yields and profits. add penetrating oil to the shaft shaft with a wrench. If it is very stiff, add penetrating oil to the shaft bearings and work the wrench back and forth until the shaft rotates properly.

> To ensure even depth of seeding, disc bearings should be checked and worn ones replaced so the discs run smoothly with no wobble. On double disc drills, it is very important that the discs form a closed "V" at the front. Adjust the inside and outside scrapers to clean the discs without preventing them from turning.

Checking the Power Lift

A number of implements these days are equipped with power lift which may be either the open or the en-closed oil bath type. For smooth operation, all parts must be cleaned and examined for wear. If there is excessive wear between the dog clutch housing and axle, the housing



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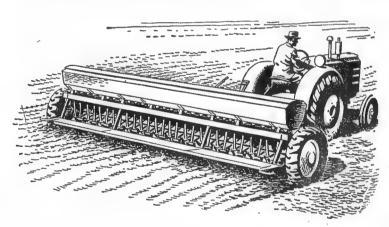
Helps you keep fuel clean

How often have you lost time due to dust, grit or water in tractor fuel? You don't . . . when you have a farm storage tank.

Helps you reduce danger of

How often have you worried about the danger of fire, due to tractor fuel stored in barns or sheds? You needn't ... when you have a farm storage tank located well away from buildings.

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The demand is for bigger and bigger machines because they get the seed in the ground sooner... give the crop more days of growth. For the same reason, it pays to put all tillage and seeding implements in tip-top working order before the rush commences. Field delays usually reduce crop yields.

Dirt and grit entering the bearing on the vertical shaft of the front axle, may cause rapid wear which would mean costly delay during crucial spring operation. The life of this part can be lengthened by placing a good canvas or plastic sock over the top of the shaft to prevent dust from entering the shaft to prevent dust from entering.

How to Make the Grain **Drill Ready for Spring**

When checking over the grain drill, When checking over the grain drill, hydraulic fluid of the kind and in the clean out the bottom of the grain box, amount recommended by the manuremove dirt and scale from fluted facturer. . . free of water or other cylinders. . . grease the drill . . . see impurities. Or uneven operation may that discs, frame, hitch and working be caused by air trapped in the parts are not broken or excessively hydraulic cylinder or lines, which worn . . . make sure the spouts are securely attached to the feed shells caused by an air leak in the hydraulic and so adjusted that seed will be lines on the suction side of the pump.

Slack in the gang bearings may be located by using a lever and block to up. Badly worn rollers and pins of pry up under the disc gang. Where the slack is considerable the shells or are thrust washers between the rebearings should be replaced. Dirt lease plate and the dog clutch to hold seals and oil felts should be replaced to get as dust-free operation as possible.

must be replaced and the axle built up. Badly worn rollers and pins of the replaced. If there have the replaced to get and the dog clutch to hold the release away from the housing they should be replaced or extra washers added.

The spring tension should be checked and adjusted, if necessary, so that the tension is such that it will crucial assist the lift as much as possible.

Keep Hydraulic Control Clean

Two common signs of trouble in the hydraulic control system are jerky, uneven operation, and the fluid foaming and overflowing at the tank vent. The remedy usually is to use hydraulic fluid of the kind and in the



HOW TO CHOOSE TRACTOR FUEL

Is there any particular subject you would like us to discuss in later issues? We will be glad to have your suggestions. Write to:

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CALGARY



Homeward Bound



Photo by Clemson.

Alberta's progressive ranchers seek improved beef breed

(Reprinted from Imperial Oil Farm News)

CROSSBRED Brahman bulls Streeter Bros. brought in some imported by Guy Weadick Brahman bulls which or from the ranches of Pat Burton, of Claresholm, or the Streeter Bros., Stavely, Alberta, have thrilled many rodeo audiences at the Calgary Stampede as cowboys desperately fought to stay bareback on loose skin that seemingly skids from the bull's ears to their tails and makes them next to impossible to ride.

Few people who have watched the "wild," rangy, humped-back, droopy-eared critters explode into the arena and send their riders sailing in about three or four jumps have any idea that some day these animals may make a useful contribution to the present beef breeds on Western Canada's range lands.

Range cattle producers in Western Canada are mighty concerned about what they call deterioration our breeds have undergone in the past two decades. They claim the range cattle today don't meet their requirements — the cattle have become soft; their bones are smaller and more refined; they often lack a rugged constitution; they weigh less at market age; and, worst of all, they are losing their ability to rustle a living under difficult range conditions.

The ranchers claim show ring standards have contributed to this condition with the result that purebred breeders are no longer able to supply the larger and more rugged types of sires the ranchers want.

Casting their collective eye around for a remedy, progressive cattlemen see some hope in the breeding programs with Brahman cattle being conducted by United States ranchers and also by a few visionary Canadian ranchers like Pat Burton, the Streeter Bros., Alec Gillespie, George Ross, Bruce Dawson and the Waldron Ranch.

crossed on all the present types and breeds of our beef cattle and found that the steers resulting from these crosses have been outstanding in their ability to winter well and reach significantly greater weights.

Burton and the Streeter Bros., who have done most of the breeding work with Brahmans in Canada, found that steers containing one-half to one-quarter Brahman blood range farther from water and make greater gains than our present beef breeds.

They also discovered that cows of Brahman blood make good mothers, don't suffer from pink eye and cancer eye, and practically no

Just what sort of an animal is this critter with the droopy ears and the hump that makes it look as if a camel might have been lurking behind the ancestral tree?

To begin, the Brahman hasn't changed much since the Hindus domesticated him several thousands of years before the Christian era. They did not do much to improve him but in the past 50 years North American cattlemen have.

To be sure, the mule-deer ears, the long sad faces, loose skin, the hump, draped dewlap, deep-chested body, and slender whip-like tail are all characteristics that keep the Brahman out of the beauty beef classes. But, through years of famine,

heat, disease, and the burden of the plow, the Brahmans have become strong and vigorous. They live where other cattle

Like a horse, the Brahman can really sweat in hot weather. Other cattle do not sweat. But the sweat glands of the Brahman around his neck and shoulders and down into his dewlap Ten years ago Burton and the give off a brownish perspiration, Ticks, flies, and the dangerous screw worm meet plenty of opposition when they attack the Brahman. His tough protective skin can shake off a fly in the same manner as does a horse.

The rodeo-created reputation of the Brahman as a "wild" critter is a slur to the docile temperament of a fine animal. They do require a different type of handling in that they prefer to be led rather than driven. They will come readily when called and are no more excitable than other breeds.

One characteristic that Brahmans exhibit to a greater degree than other breeds is the urge to survive. When grass is short and water scarce the Brahman similar conditions.

This unusual beef type dresses out measurably higher than British beef breeds and there is a tendency towards less patchy fat. The fat is not found as a thick layer beneath the skin but is laced in the lean making the meat bright red colored and well-marbled. And the hump is not waste as it is lean meat and makes a good pot roast.

Since the first Brahman bulls were imported from Calcutta, India, nearly 100 years ago by a Louisiana rancher, this Cow" has been crossed and criss-crossed with cattle breeds in North America. As a result there are a number of new breeds like the Santa Gertrudis, an original cross between Brahman bulls and Shorthorn cows: Beefmaster cattle, a three-way cross between Brahmans, Herefords and Shorthorns; the Brangus, whose name suggests the Brahman and Angus cross; and the Brafords, also suggesting the Brahman and Hereford

A beef breed that appears to offer the greatest possibilities under Western Canada range conditions is the Charolais originating in France over two centuries ago and in a temperate climate not unlike that of Western Canada. The most noticeable feature about this breed is that a little bit of Charolais blood goes a long way in cross breeding.

In fact, a Charolais X Brahman breeding program on the Turner and Thomas Ranch at Weslaco, Texas, in the past 10 years has produced the Char-bray which has astonished veteran stockmen and officials of the United States Department of Agriculture. As one official said, "You can throw away all the rules on animal breeding when you work with Charolais because every possible combination of Charolais blood produces the goods.'

By far the greater part of the Brahman breeding programs have been done in the United States where new types and breeds are now found in about every State of the Union. But what about Canada?

Pat Burton and the Streeter family wash.

which is also insect repelling. Bros. have 10 years experience breeding Brahmans with promising results. They are convinced Brahman blood has something to offer the commercial beef producer in Western Canada.

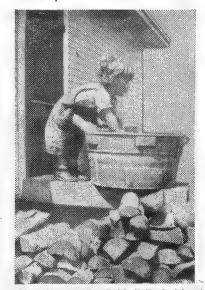
> Bruce Dawson, who ranches on the Red Deer River at Atlee, Alberta, brought in two yearling Brangus bulls from the ranch of Raymond Pope, Welch, Oklahoma, this last spring. He is using these bulls on his Angus cows in order to get greater beef poundage at market age.

George Ross, Aden, Alberta, made a trip to the Cornelius Ranch, Coleville, California, where Brahman cattle are giving a good account of themselves at 6,000 feet above sea will be in better condition under level. He brought back a registered beef-type Brahman bull which was bred to pure-bred Shorthorn, Angus and Hereford heifers last summer. Results from these crosses will be watched closely by Canadian stockmen.

> The Dominion Experimental Farms Service are interested in the possibilities of Brahman and Charolais breeding for the range areas of the West and are maintaining close contact with developments in both Canada and the United States.

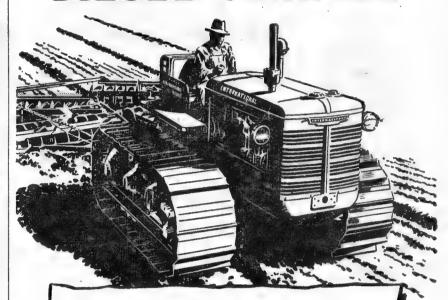
> The Experimental Farms Service has also done some promising work with Cattalo, the cross between Buffalo and domestic The main problem of sterility in the progeny has been largely overcome and animals with only a small percentage of Buffalo blood have demonstrated useful characteristics that enable them to rustle a living under exceedingly difficult conditions. These characteristics would be an asset if incorporated in commercial range cattle. There is hope that additional breeding work will eventually enable these useful traits to be used for the benefit of the commercial cattle producer.

Prize picture



Mrs. Hector Benfield, R.R. 2, Lloydminster, Sask., sent us this shot of little Mariene Boxall helping with the

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Compana is a new, two-rowed semi-smooth awned barley variety which is being grown extensively on dry land in Montana. It has been grown to some extent in Southern Alberta and Southwestern Saskatchewan and has performed very well in comparison with other varieties. Compana is recommended by the Alberta Varietal Zonation Committee for production in Zone 1 and the western and southern parts of Zone 2. In other words, this variety is recommended in the dry areas of Alberta, but not where rainfall is relatively high.

In tests conducted by the Experimental Station at Lethbridge, Compana, under dry conditions has usually been higher yielding than the other varieties tested. Under very dry conditions it yields considerably higher than such varieties as Titan, Vantage and Montcalm. Under these conditions, Compana may not head completely, the heads remaining in the sheath. This does not interfere with threshing however, since the variety remains relatively easy to thresh.

Under relatively moist conditions varieties such as Montcalm and Vantage yield higher than Compana. Under all conditions, however, Compana is high in bushel weight and has a low hull content. Since Compana does not shatter or lose its heads readily, it can be straight combined without much danger of loss from wind damage.

Compana is very weak in the straw and is not suitable where moisture conditions are such that lodging is a problem. It is moderately resistant to loose smut and moderately susceptible to covered smut

Fertilizer from the Dead Sea

A ccording to Dr. M. R. Bloch, an official of an Israeli potash company, the Dead Sea contains some 2,000,000,000 tons of potash which will help considerably to increase standard of life in the world.

In a recent report to the United Nations Scientific Conference on conservation utilization of resources, Dr. Bloch said the Dead Sea also has an inexhaustible supply of salt. magnesium and bromine. These minerals are extracted by means of solar evaporation.

"I Saw . . .

The Frank Slide is a well - known landmark, but few people could tell the name of the hotel in Frank. It is "Slide Inn." M. L. MacDonald,

Blairmore, Alta. The Farm and Ranch Review pays \$1 to observant readers who spot the unusual sights on the prairies and send them in to the Editor.



Rut

In Merced, Calif., Muriel Thames was charged with forging five checks so that she could raise money to pay off the \$65.89 check she had forged last summer.

Light Finger

In Lyndhurst, N.J., perplexed officials were industriously looking for the thief who made off with every one of the colored bulbs on the 18-ft. community Christmas tree standing near police headquarters.

Counterpoint

In Cleveland, Mrs. Agnes Graso, suing for divorce, charged that her husband caused her to become deaf by beating her, then broke her hearing aid when she refused to listen to his conservation.

The Male Animal

In London, Ont., Police Constable Wallace Blanchard collided with a car, got out of his police car to press charges against the other driver, decided to drop the whole thing when he found that it was his wife.

Litterateurs

In Toledo, Ohio, Lawrence A. Ostman, his wife Helen and her daughter Virginia each won a \$300 refrigerator for their entries in the same why-I-like essay contest.

Stable Door

In Malden, Mass., police decided to keep a close eye on Charles Fauci's car after he reported the theft, within a month, of two hub caps, gas, the cap to the gas tank, more gas, a new gas tank cap, four door handles, the windshield, both headlights.

Passion for Anonymity

In Pittsburgh, the adimrer who sent Ruth Tremaine about \$100 worth of red roses had the bills sent to her boy friend.

Underground Railway

In Cadillac, Mich., investigating a mysterious path worn between the front and back doors to his grocery, Lawrence Marvin discovered that the two boys who had been selling him cases of empty beer bottles were getting the cases from his own storeroom.

Wrong Foot

Near McAlester, Okla., Sid M. Puryear, employee at the naval ammunition depot, got a bad bruise when a crate of 1,900 pairs of safety shoes fell on his foot.

Greatly Exaggerated

In Newcastle, England, 82-year-old Thomas Dixon got a divorce, on grounds of desertion, from the wife who left him 43 years ago. In Chicago, Mrs. Genevieve Lumley complained to the judge that, among other things, her husband told friends she was dead.

On Second Thought

In Kansas City, Martha Marie Ballard and Noah Paddack, both 71, patched things up and got married after he forgave her for jilting him at the altar 49 years ago.

On Cue

In San Antonio, Mrs. Elma Dill Spencer's watchdog, missing while her house was being looted, showed up later and attacked the cop who came to investigate.

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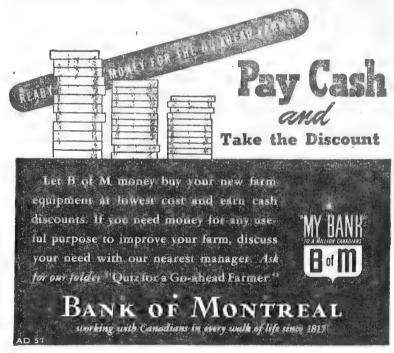
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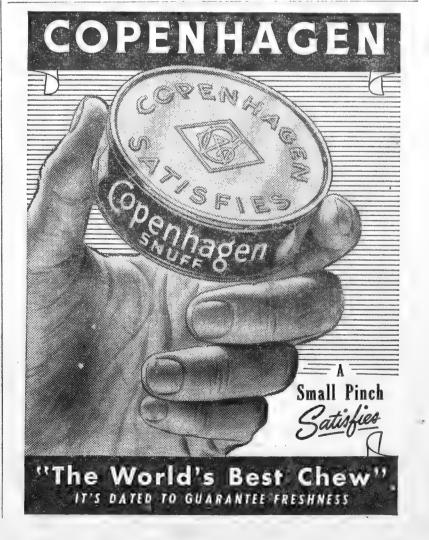
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Our Billy the Goose is a great weed destroyer

(Reprinted from The Organic Farmer)

By L. R. HILL

N our rich mountain soil we have always been bothered with that wicked old pest we call "witchgrass". The roots go down to apparently endless depths and spread rapidly in all directions. It is about the first thing to start growing in the spring and keeps growing until

the ground freezes up for winter. During a rainy cool spell it can easily overrun almost any planting in a very short time. We had so much trouble with it in our strawberries that we were about ready to give up. We had read hopefully about the new grass killing chemicals; but remembering the losses we had with 2,4-D when we used it on the weeds, we didn't want to experiment.

Then we tried geese. After the idea become well developed we asked for a few opinions. Most of our neighbors thought we were too hopeful. Geese. they said, did more damage than good, were dangerous, noisy, and dirty. But we were still hopeful. It was our last straw and like the drowning man we clutched. After the word had gotten around we were in the market for a goose, leads start; ed to come in.

Over in Mill Village we found a nice couple who had a gander left from a flock killed by some dogs, and they were interested in finding a home for him. followed them out to the shed and watched a huge gray gander

parade around and eye us with a look I couldn't quite analyze. But our minds were made up. Over the gander's protesting mutters we exchanged the necessary wampum and we owned a gander. He was bound wing and foot and popped into a fish crate through which his long neck and head protruded. His past owners told us his name was "Billy" and bade him farewell. Obviously, he had been the family pet. We set him on the back seat and started home. Billy amused himself on the way by muttering at us, and by sticking his long neck out the

Put it this way:

"Who rises from prayer a better man, his prayer is answered.

-George Meredith.

window and honking at people

along the way.

After we got him home and unloaded, we let him goose step up to the berry patch. Now was the hour. Had we been on a wild goose chase? Never was a goose more closely watched. He eyed the grass carefully and munched a few mouthfuls. Down went a whole dandelion plant, then a kale. But then the powerful bill grabbed a young strawberry plant. Our hopes fell but took a quick lift when he released it and went on to We brought him more grass. out a bucket of water and praised him to the clouds.

So that is how Billy became vice-president in charge of weed control at Hillcrest Nursery. We provided him with two geese as companions, and watched our grass and weed problems diminish under their care. They are friendly and like to follow us around when we are working in the nursery. They make fine watchdogs, honking loudly when anything unusual comes up. We find about the only weed they won't eat is the pus-

ley, and we don't blame them. We keep them shut out of the flowers, the garden and the asparagus. Also out of the strawberry patch when berries are ripe. They don't eat the berries, but my neighbors were right — geese are dirty. We shut them up at night against their wishes — because foxes are thick and bobcats drop around now and then. With a little cracked corn as supplement, they live on their work.



"I've decided to take up badminton instead.

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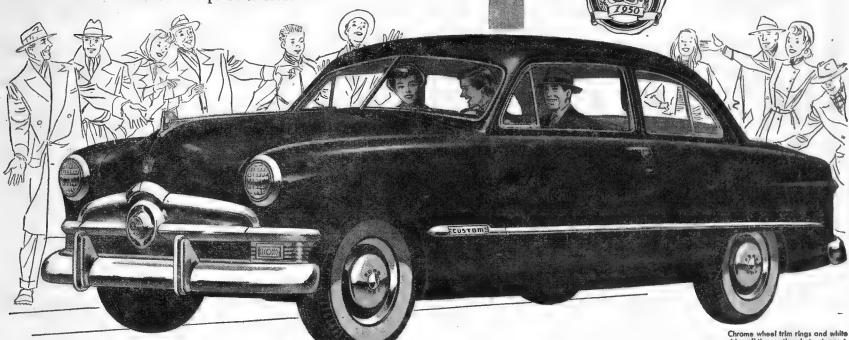
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Si	ze	Ply	Tire Price	Tube Price
7.50	x 16	4	18.30	3.50
7.50	x 18	4	19.65	3.65

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	Si	ze	14.	Ply	Tire Price	Tube
10	×	28		4	\$44.15	\$7.85
10	X	38		4 .	56.70	9.75
11	×	28		4	50.45	9.55
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111	×	38		6	73.90	11.70
12	×	38	-	6	79.10	14.30

,		Si	ze	Ply	Price	Price
-	13	X	24	6	\$68.50	
ř.	13	ж	26	6	69.80	12.60
	13	x	28	6	74.80	11.05
•	14	x	24	6	83.20	12.00
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When it comes to food a bear knows what's good

By CAPT. T. KERR RITCHIE

KIPLING made the bear the doctor of the jungle, and he is really an astonishing pro-fessor of medicine. Wisely he prefers to sleep in a comfortable bed most of the winter, and thus economizes in cough mixtures or National Health Insurance.

Bruin uses moss and gum from trees to stop the blood flowing from a wound, just as some people have faith in cobwebs. Occasionally he or she plasters a broken bone with clay or grass, and causes it to set fairly accurately. If either the doctor or his wife or children feel indisposed they don't waste time gossiping in a queue, they hurry off to the nearest salt-lick, which may be alkaline or ferrous or sulphurous; but is quite as medicinal in its virtues as any in Harrogate or Vichy, and much less expensive.

When Jacques Cartier landed in Canada after a tiresome passage from St. Malo his crew were suffering badly from scurvy. An Indian gave them a remedy which consisted in making a concoction with water and the needles of young pines. The chronicler informs us that this beverage aided miraculously in the seamen's speedy recovery. As a matter of fact most primitive peoples have learned much of the art of medicine from intimate study of wild animal life, and the Indian's cure for scurvy is well known to all Canadian

much the same as that of man -meat, fish, fowl, and vegetables—and they are subject to many of the same maladies. They are peculiarly susceptible to scurvy, and menaced above all in winter when the material provision of vitamins contained in their fat wastes away quickly during sleep.

Any bear killed in winter is generally found to have its stomach filled with the needles of resinous trees if the neighbouring regions contains pines or cedar. If there is no such timber in the environment the paunch is usually stuffed with moss. No bear ordinarily eats such food during the summer, only just before it goes to sleep it makes a provision. Pine needles and moss are difficult to digest and rich in vitamins. They remain in the bear's stomach, without decomposing too quickly, thus furnishing little by little the necessary provision of vitamins to preserve the animal from scurvy.

Most bears hibernate for longer or shorter periods, according to the locality and the weather. For instance, sometimes the winter is so mild in the vicinity of Vancouver that the bears do not den up at all, or if they do, for only very short periods. On the other hand, in the northern regions and in Eastern Canada they may go to their dens as early as the end of October and not come out again till April.

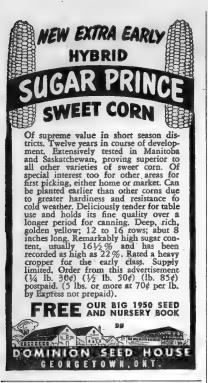
Black bears are extremely particular about their winter residence, and often spend a lot of time picking out a suitable place and fitting up a snug re-treat. It may happen that a hollow tree answers the purpose best, but they are more partial to a tunnel dug in the bank of a dry gulch. If it is easy ground to dig they may burrow some eight or nine feet, and then make a regular nest, which they line with plenty of leaves and moss.

Watching bears in captivity, one is apt to get the idea that they are slow moving, clumsy, ill-tempered animals. Even in the matter of temper they are the very opposite, and their crossness or savage nature is increased by captivity. The pace of a bear is most deceptive. When they are walking you' might imagine that they are not moving at all quickly, and it looked to me as if their speed was not much greater when they got a sudden scare and ambled off. At the same time a bear can travel at a tremendous pace for long distances; unless he has fattened up over much preparatory to his winter fast.

By nature; at times; bears The ordinary diet of bears is may be a bit cantankerous or grumpy; more especially a shebear with cubs. Cubs have to be brought up in a fit and proper manner, and for the slightest breach of discipline are cuffed without mercy. But, notwithstanding, there is no animal that has a more sincere affection for its young, and that love is reciprocated. There is nothing more distressing than to witness the grief of the cubs when they find their mother dead; they moan and cry and often shed tears, just like a human being.



"Yes, Mammal I'm cleaning up the spilled milk now."



Arthritis • Neuritis • Sciatica If you suffer the distressing pains of these diseases after the usual comedies have failed, learn about a specialized system of treatment. This marvelous system is fully explained in the Ball Clinic's FREEB BOOK Write Today.

BALL CLINIC Dept. 506, Excelsior Springs, Ma.

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"I wish to express my thanks to you for what your Treatment has done for me. I was suffering terribly with Piles and I found it difficult to carry on with my work. I am a Bushman or Logger by trade. I feel fine and have felt fine for over 1½ years now, thanks to Page's Pile Treatment. I certainly recommend it to any Pile sufferer."

If you suffer from itching, bleeding or pro-truding piles, you may have a generous sup-ply of this good treatment absolutely free for the asking. Don't delay, Don't suffer needlessly. Fill out and mail this coupon RIGHT NOW!

TODAY.	To p	
Name		
Address		413
City	Pro	A

Calgary Bull Sale breaks all records

 ${f A}$ record-breaking entry of 1,326 bulls has been received from contributors for the Calgary Spring Bull Sale, March 13th to 17th. Entries include 880 Herefords, 244 Shorthorns, and 202 Aberdeen Angus. These numbers will probably be reduced somewhat when the bulls arrive in Calgary, as they will be subjected severe culling, and any which lack in condition or quality will be removed immediateto the stock yards for slaughter.

A great deal of interest has also been shown in the Baby Beef and Open Fat Stock Clases and officials believe that 125 well fitted steers and heifers will compete in these competi-

A number of outstanding judges have accepted invitations to place the show classes, including the following:-

Hereford Bulls and Baby Beef - Dan Thornton, Gunnison, Colo.

Aberdeen Angus Bulls and Baby Beef — Alex Edwards, Watford, Ont.

Open Fat Stock Classes and Championships — Wm. Florence, Moscow, Idaho.

Josh Biglands of Laramie, Wyoming, has been invited to judge the Shorthorns.

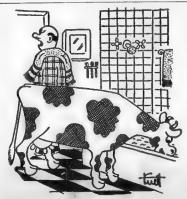
The sale will be in the capable hands of the same five Auctioneers who handled it last year: J. W. Durno, Calgary; Archie Boyce, Olds; C. F. Damron, Bentley; D. E. Ball, Edmonton and Allen Baker, Cayley.

Metallic flavor in cream subject of dairy pamphlet

SIX conditions which could cause a metallic flavor in cream are listed on a new leaflet prepared by the Dairy Branch of the Manitoba Department of Agriculture.

Rusty cans, improper care of dairy equipment, and storage of cream in unsuitable containers are chief among the causes given for a "metallic" cream grading.

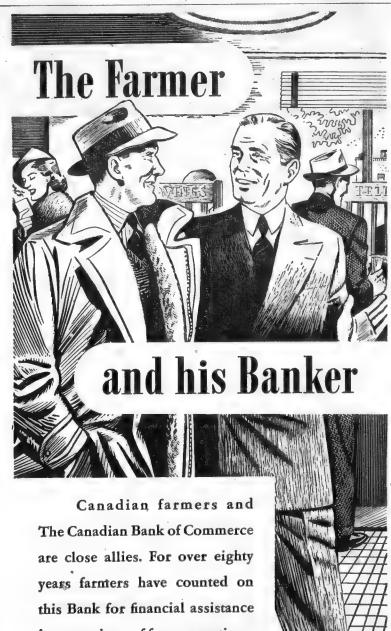
Copies of the publication, No. 226, may be obtained from the Dairy Branch, Room 143, Legislative Building, Winnipeg.



"Junior! Have you left the corral gate open again?"

Everywhere!

Rich in flavour!



in every phase of farm operations. Farmers everywhere are invited to discuss their requirements with our local Managers.

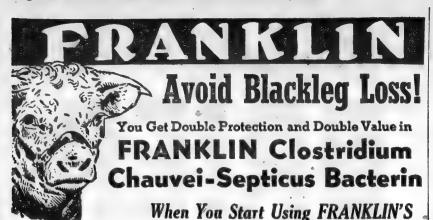
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Fresh stocks at local dealers almost everywhere. We'll gladly send you the name of the nearest one. along with a copy of the latest Franklin catalog.

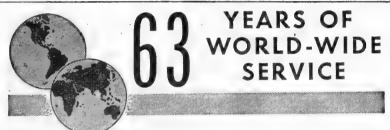
Franklin Serum Co. of Canada Ltd.

Whetever There's Livestock There's Need for Franklin's

Safety Glass for Automobiles, Any Make of Car THE BENNETT GLASS CO. LTD. 228 - 7th Avenue East.

M 1778

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370,000 CLIENTS ARE NOW

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is currently provided by the policies they own ...

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and other sound securities to guarantee payment of the benefits promised under these policies. These funds are, principally, the accumulation of premium deposits, and the interest earned on them serves to reduce the cost of insurance.

\$157,233,097 OF NEW INSURANCE WAS PURCHASED IN 1949

by over 35,000 clients, many of whom were already owners of Manufacturers Life policies ...

\$23,298,223 WAS RETURNED TO LIVING POLICYOWNERS

and to the families of those who died. The Life Insurance programmes under which these payments-\$74,435 every working day - were made, have been carefully arranged by trained Life Insurance representatives - one of whom is available to perform the same service for you.

HEAD OFFICE

(Established 1887)

TORONTO, CANADA



Stand on our own feet

To the Editor,

I sincerely hope we will see more material on security such as you gave in your editorial. It is time indeed that the people of this country woke up to the fact that they have two feet to stand on and got on them instead of milling about undecided, hoping that the government or their fellow men will support them. Let us use our own brains and muscles to get somewhere, for, as General Eisenhower once said "It is dangerous to assume that our country's welfare belongs alone to that mysterious mechanism called the 'government'." Every time we allow or force the government, because of our own individual or local failures, to take over a question that properly belongs to us, by that much we surrender our own individual responsibility, and with it a comparable amount of individual freedom."

We need only look at the decadence in those classes which due to no effort on their own part, have found their earthly needs satisfied, to realize the danger of this insiduous drug, security.

Yours truly, S. Hewson Eckville, Alta.

Supports Kerry Wood

To the Editor,
Having read the article, "Organized Wild-Life Slaughter
Covote Hunts", by Disguised as Coyote Hunts", by Kerry Wood, I am compelled to write to you and express my

Mr. Wood is in error when he

against these hunts, there are three or four besides myself that feel the same as he does. Furthermore some of us like to make use of any coyote skins that we may get, and we do not object to anyone using a rifle to shoot coyotes as long as it is not done on a mob style. Also Mr. Wood did not mention the pet deer that was wearing a bell and red ribbons, that was left with a broken leg. Nor did he mention horses that were blasted by shot quite deliberately. And

several wire fences. And what about the hogs that got shot. Also in one case where the door had been left open on a grain bin and a number of magpies took refuge You can imagine what the roof of that building was like after 8 or 10 shots from a 12 guage

another bunch that was run right out of the country thru'

says that he is a lone minority

went through it.
Coyote hunting is great sport when it is done in a sane manner by one or two men with rifles. It can compare with any big game hunting.

Yours truly, Haynes, Alta. J. Pomrenk

The search for security

To the Editor,

I can endorse your statement in the Feb. issue re the scant chance of realizing any marked degree of security under present conditions. I am still carrying contracts for life insurance taken out 40 years ago, when dollars were hard to get and worth something. It is hard to decide whether to cash them in now and be able to buy a little with the proceeds or run the risk of perhaps getting nothing in the future.

Present government spending would not encourage one to regard either dollars or Government bonds as a safe invest-

Regulations and restrictions of all forms of production must inevitably retard the invest-ment of risk capital. If the project is a success the Income Tax Dept. appropriate the Tax Dept. appropriate the lion's share of the profit. It is a queer game. If heads come up you won't win and if tails are on top you are sure to lose.

It seems to me it would take more than a Rowell Commission to solve the desperate

municipal problem. Why single out the municipal problem only as being desperate? Is it not a provincial and federal problem as well?

If provincial revenue is div-

erted to relieve the municipal need this procedure will require the province "to impose,



CALGARY FARM MACHINERY & SUPPLY CO.

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Land conservation makes progress in Sask.

REGINA.—A total of 146 projects, including land reclamation and development projects designed to increase the production of winter feed in Saskatchewan under both dry land farming and irrigation, were undertaken by the conservation and development branch of the provincial department of agriculture during 1949, Hon, I. C. Nollet reports.

This total did not include numerous small projects such as weed eradication, seeding of roadsides, livestock improvement programs and forage crop demonstration projects which were carried out under the agricultural earned assistance program.

Figures released by the minister indicated that the branch had 20,051 acres under development for feed and fodder, 16,868 acres of dry land and 3,183 acres on irrigation projects. An additional 625 acres were developed for grass seed produc-

On these projects the conservation and development branch seeded 10,038 acres to grass or alfalfa during the year and, in addition, regrassed 6,072 acres of abandoned crop land and grazing land in the province.

Irrigation development was an important phase of the work done by the branch in 1949, according to the report. The conservation and development branch constructed four and a half miles of main canals (on a

(Continued from page 42)

self-destroying taxes" which, as you say, "will weigh most as you say, heavily on our primary produc-ers who are our ultimate consumers in this country" whether collected by the municipal or provincial government.

It is true "the co-op farmers deserve a square deal," but don't we all? Is it fair or square or just or honest or good business practice to tax

production in any form?

I envy you and your confidence in "A Prairie Rowell-Sirois Commission," who, you say "would largely solve the whole problem."

You state, "There is much that each of the provinces can learn from the others." Much as I dislike to, let's give the Social Credit devil his due. A greater share of economic rent due to the granting of special privilege in Alberta has been collected than in any other province, state or nation.

If the total value due to special privilege was to be absorbed by governing bodies all taxa-tion could be eliminated.

I think it is safe to predict that any taxing commission that will be appointed in the future can be trusted to not disturb this "nigger in the wood pile."
Milk River, Alta. Fred Pease

provincial feed and fodder project), 37 miles of laterals, 3.6 miles of drainage ditches and 23.2 miles of dykes and border ditches in bringing 15,315 acres of land under irrigation.

NEW INVENTION

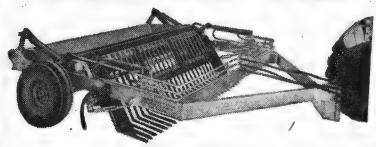


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ONE GALLON treats sixteen acres

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ACTION! Naugatuck WEED KILLER

* AMINE * ESTER * DUST

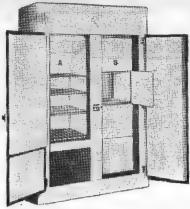
Killing action is positive, surer, safer. For effective weed clearance, use the WEED-BANE formulation you preferamine, ester or dust. Made in Canada by Canadians for Canadian conditions.

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- WEED-BANE AMINE The safest, surest, most economical 2,4-D weed killer in use today. Mixes completely with any kind of water. Positive wetting and sticking action — will not wash off in rain. No vapor to damage adjacent susceptible crops. Specially treated to prevent plugging of nozzles.
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right on the farm this spring with the New Curtis

Temperature Refrigerator

28 Cu. Ft. Capacity Model illustrated: 2T-28-SC

A-General Storage Section:

- Temperature 36 to 38° F.
- 15 cubic feet capacity on remote type.
- 111/2 cubic feet capacity on self-contained type.
- Controlled individually.

Locker and Freezer Section:

- Freezes and stores up to 600 lbs. of food! (approx.)
- 13 cubic feet capacity!
- Four separate compartments.
- Controlled individually.

The ALL NEW combination "Two-Temp" Refrigerator incorporates all the conveniences of a locker storage and regular storage refrigerator ALL IN ONE.

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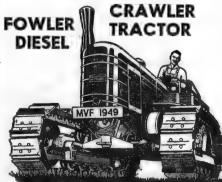
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WE are still in the market for good pictures from our ders. We'll pay \$5 for those readers. that make two column cuts and \$3 for single columns. But before you send them, please read these rules.

1. No more snow or winter scenes can be used.

2. We require prints not negatives and it is seldom that we can use prints less than 3 inches by 5 inches. We prefer 5 inches by 7.

3. To reproduce the print must have sharp contrast between white and black. Cloudy, fuzzy prints are hopeless.

4. Don't send pictures similar to ones we have already published, even if you think yours are much better.

5. Children and pets make good subjects. But not when they are posed unnaturally.

6. More pictures are spoiled by poor back-grounds which blend with the main subject than by any other fault.
7. No pictures can be returned unless analoged with a

ed unless enclosed with a stamped, self-addressed envel-

8. We don't want snaps out of old albums. We want newsy pictures taken right now.

9. The subjects of the picture should be fully identified. 10. We can't undertaké to enter into correspondence about pictures.

Sask, prepares for 'hoppers

REGINA, — Completion of arrangements to purchase 150,000 pounds of a new chemical 'Aldrin', for the 1950 Grasshopper Control Cam-Grasshopper paign, is reported by Saskat-chewan Minister of Agricul-ture, Hon I. C. Nollet.

"Aldrin passed extensive field tests in both the United States and Canada last year," stated Mr. Nollet. "The main advantage of Aldrin over Chlordane is that only onequarter of the actual amount of poison ingredient is required. Two ounces of Aldrin is sufficient to spray one acre, compared to one-half a pound of Chlordane. This will result in decreased costs to the farmer for grasshopper control again in 1950," said the Minis-



we have a lot of floods "Well.

SUGAR TOMATO

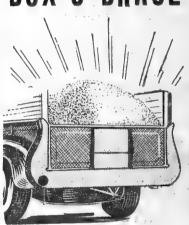
to 14% Sugar Content Think of it, a sweet tomato with many fruits tomato with many fruits exceeding 12% Sugar. Nothing like it ever before. Note the beauty and symmetry of the long racemes of fruit, often two feet in length. Smaller than regular tomatoes, but their superb sweetness and appearance make The Sugar Tomato the finest vegetable introduction in Tomato the finest vegetable introduction in years. Bears enormously and is in a distinct class for dainty dishes, salads, sauces, juice, etc. Irresistible. Be first to have it. Order now.

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 Prevents rear fender and box cracking.
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EASY TO INSTALL
The new patented "Hercules"
BOX-O-BRACE fits onto your
truck body like a letter slips
into an envelope.

PERMANENT

This vise-like attachment on your truck body will outlast your truck — slip it off and install it in the new truck. GET FULL LOAD CAPACITY
WITHOUT STRAINING BOX BY
INSTALLING A "HERCULES"
BOX-O-BRACE — NOW!

MAIL THIS COUPON FOR

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Red Deer, Alta.	
Please send me specif	ications.
prices and full information of the prices and the prices and the prices are the prices are the prices are the prices and the prices are the prices and the prices are the p	tion on
"Box-O-Brace".	-

NAME

ADDRESS

NANCE CO. LTD.

DISTRIBUTOR - Red Deer, Alta.

Handy Device

By Courtesy of the "Popular Mechanics Magazine"

MORTAR BOX MADE FROM TRUSS ROD SUPPORTS OIL DRUM IDEAL FOR SMALL JOBS

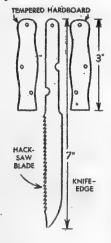


MADE from half an oil drum, this ADE from half an oil drum, this steel mortar box is more durable than the wooden type, cannot leak or splinter and is just the thing for small jobs. In addition, its rounded bottom facilitates mixing the mortar and shoveling it from the box. The drum is cut in half, lengthwise, with a torch, and should be steam-cleaned before cutting to remove any fumes which might cause an explofumes which might cause an explo-sion. Flat-iron legs are welded to the drum to keep it from tipping.

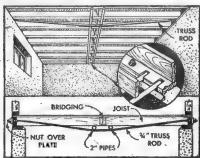
SMALL OIL DRUMS LINKED TOGETHER DOUBLE FOR LARGE STORAGE TANK



HEATING oil for the home or farm is more economical and convenient to use if it can be stored in sizable quantities and piped directly to the heating unit. However, if the cost of installing a large storage tank is pro-hibitive, several 55-gal drums con-nected with pipe will serve the pur-pose. Each drum is fitted with a valve so oil can be fed from one drum at a time or all of them simultaneous-



FLOOR TO ELIMINATE POST IN BASEMENT RECREATION ROOM



a pasement post makes the space useless for a recreation room, the post can be removed and the floor braced with two lengths of pipe and a truss rod. Two lengths of 2-in. pipe are placed parallel from wall to wall are placed parallel from wall to wall across the joists. Notches are made in the sills to take the ends of the pipe. Then a ¾-in, truss rod, placed parallel to the joists at the center of the room, is inserted through holes drilled in the boxing. Steel plates and nuts over each end of the rod are used to draw it tight from the outside of the house. If the room is more than 16 ft. long, it is advisable to use two truss rods to provide sufficient support. ent support.

BARREL CANOPY PROTECTS ROCK SALT



ROCK salt kept outdoors for cattle will not be washed away by rain if it is protected with a barrel canopy. The barrel is sawed in two, and one half is placed on the ground to form a table. Then the other half is suspended with rope directly above the table to serve as a canopy. The cattle will nuzzle the canopy out of the way to reach the salt. way to reach the salt.

KITCHEN KNIFE FASHIONED FROM HACKSAW BLADE HANDY FOR PEELING VEGETABLES AND SAWING BONES

A real timesaver, this kitchen knife has both a keen A real timesaver, this kitchen knife has both a keen cutting edge for vegetables or meat and a sharp, saw-tooth edge for bone and gristle. The knife is ground from a hacksaw blade and fitted with a handle of ¼-in. tempered hardboard. A piece of hardboard is cut to fit each side of the blade and registering holes are drilled through both pieces to permit riveting them together. The edges of the hardboard are rounded and the ends of the rivets are ground flush with the handle. Finally, the crack between the handle sections is filled with plastic wood and the handle is shellacked. shellacked.

WARMING VARNISH AIDS SPREADING

VARNISH can be applied more evenly and with considerably less effort if it is kept warm while being used. When varnishing the floor or woodwork of an unheated room, the varnish may be kept warm by standing the can in a shallow pan filled with hot water.



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> Mail Coupon Below for Free Booklet on how to treat Hair Troubles



"Two years ago the hair on my head had disappeared I. came across your advertisement and now I have a good head of hair."

G. BATES.

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G. BARTON.

"I now have a fifine head of hair after having been completely bald on the back of my head and several patches in front."

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1000 FREE 3-DAY TEST PACKAGES

of Scalp Stimulant also available for applicants.

The photographs above show the splendid results of the Renair Process for the Hair which the Free Booklet describes fully. Get yours today.

My experience leads me to feel there is "My experience leads me to feel there is no need for a great many people to go Bald or to have hair receding at the forehead, thinning on the crown or beginning to show silver streaks if a proper system of assisting hair growth is used." This statement is made by Mr. Frederick Godfrey, a hair specialist famous in England, Australia and New Zealand, and now in Canada.

PHOTOGRAPHIC EVIDENCE PROVES

Mr. Godfrey gives evidence of the literal truth of his statement in the form of reports and photographs from men and women in all parts of the world. Photographs showing a fine head of hair after treatment, with scores of letters testify to the efficacy of his system, such is the proof of his methods Mr. Godfrey offers you

you.
Much of this evidence is reproduced in his striking Booklet, "THE RENAIR PROCESS FOR THE HAIR," a free copy of which is offered to all interested readers, along with a 3-day test package of Scalp Stimulant.

HAVE YOU ANY OF THESE HAIR TROUBLES ?

TROUBLES?

If your hair is receding at the forehead, or thinning on the crown, it is worth your while to send for Mr. Godfrey's free Booklet describing his method of assisting hair growth.

If your hair is poor in texture and defi-

cient in quantity, this can be helped in a few short months by following Mr. God-frey's instructions. Minor hair worries, such as scurf, dry, brittle or splitting hair, are easily overcome.

MAIL COUPON BELOW TODAY

MAIL COUPON BELOW TODAY
All feaders who are in any way worried about the condition of their hair are cordially invited to send for Mr. Godfrey's free Booklet, "The Renair Process for the Hair," and test package. Study this at your leisure and satisfy yourself that here is a system for hair cuiture which is sound and efficacious and produces proof for your inspection.

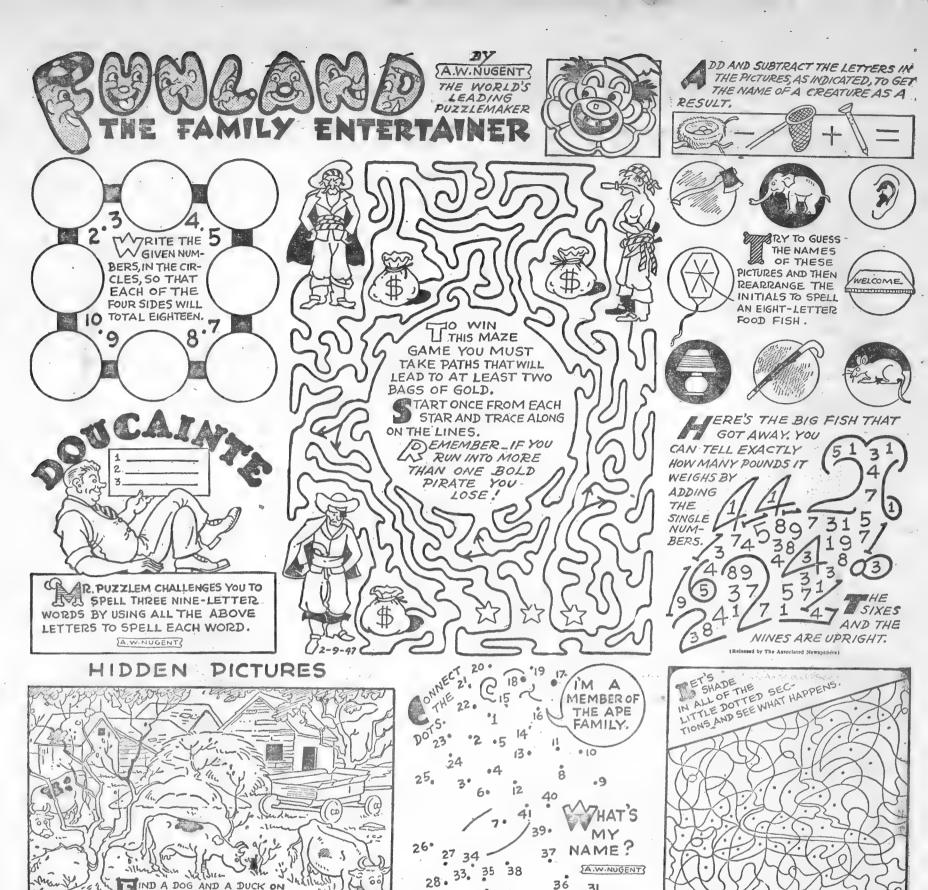
--- POST COUPON FOR--FREE TESTING PACKAGE

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66 FIND A DOG AND A DUCK ON THIS FARM YARD SCENE RISS GROSS CREATURES

LISTED AT THE LEFT ARE THE NAMES CAT . RAY OF 28 CREATURES. YOUR PROB-LEM IS TO TRANSFER THEM TO THE CHART WEASEL IN THE CORRECT POSITIONS. WE PRINTED IN "HUMMINGBIRD" TO GIVE YOU A START. OX DOE MOLE ELK · ASS MOOSE CROW BADGER

RAT APE

DEER

SQUAB

SQUIRREL

TORTOISE SNAIL

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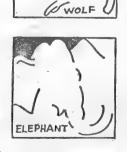
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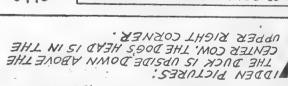
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BAT, ELK, BARRACUDA, LYNX, TORTOISE. PRINCE OS CREATURES: ACROSS-WEASEL, TOWN TOOL RATE, MOLE, MOLE, CROW, LION, YAK, APE, SQUAB, RAY, RAT, HUMMINBIRD, DEER, CAT, SWALL, DOE, RHEA, CROW, LION, YAK, APE, SQUAB, RAY, RAT, MOLE, SQUAB, RAY, RAT, RAT, SAM, TOOL RAGASEL, EEL, CROSS-WEASEL,


CORRECTLY THEY WILL TOTAL 268 LBS. HSIMMIN



EVITE, EAR, RAT, ELEPHANT AND LAMP, WILL SPELL MACKEREL. HE INITIALS OF MATAXE, CANE,

CAUTIONED AND AUCTIONED.

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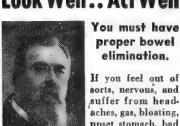


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Dr. Peter Fahrney
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has proved to be an ideal medicine. Use as directed. Gently and smoothly this laxative and stomachic-tonic puts sluggish bowers to work and aids them to eliminate clogging waste matter; helps expel constipation's gas, gives the stomach that comforting feeling of warmth. Alpenkräuter's amazing effectiveness is due to a scientific formula which combines 18 (not just one or two) of Nature's medicinal herbs, roots and botanicals—a secret formula perfected over a period of 78 years. Yes, for prompt, proven, pleasant relief for constipation's miseries get Alpenkräuter today in your neighborhood or send for

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Is your child selfish?

by Louise Price Bell

Tr'S been some time since Gladstone stated that "Selfishness is the greatest curse of the human race", but time hasn't dimmed the truth of this cliche. Many things can be traced to that despicable trait selfishness - and it is the individuals who are not interested in their fellow men, but only in themselves, that have the greatest difficulties in life. Many a failure has sprung from the selfish attitude of the person who failed.

Since it is supposed to be

true that we get out of life only as much as we put into it, just where do we stand if we put in nothing that doesn't benefit us - instead of our family and our friends?

Children, without any guidance, can be very selfish little bits of humanity. This isn't their fault. Very much like little animals, the wee tots know only what their senses demand until they learn that such demands must be curbed, and dovetailed with those of others. That they must live in a world with other people who may want the same things that they want and at the very same time. And so compromise is necessary.

One of the least important things to many young mothers seems to be the teaching of the value of other's possessions. Children of these parents go into homes, pick up anything they see, move furniture, grab peanuts or candy from a dish without being asked to do so - toss magazines on the floor, often tear them ... This is unpardonable. If, from the time the child understands anything, he is taught to leave the things that don't belong to him absolutely alone, it won't be at all hard for him to learn it.

Mothers make a mistake when they put accessories on high shelves, out of the reach of their children. When Baby first starts to creep and reaches for a pretty oddment on coffee-table it's a simple matter to say "No, Billy, that is Mother's." It may have to be repeated and the chubby hands may have to be slapped, but persistance will more than be rewarded. If the toddler has a mania for magazines (as many do) keep old ones on a low shelf especially for him to pull off, play with, and enjoy. Smile and say: "Yes, those are Bil-ly's" when he reaches for one, just as you told him in a negative vein that the others were yours.

Actually, this isn't a difficult part of child-rearing though from the damage some chil-dren do in others' homes and the annoyance they cause, one

would think it an unsurmountable hurdle! And it harks back to the selfish and non-selfish idea. If a child thinks of others in small ways like this he is learning very early that there are others that should be considered.

Many children are always looking for, and expecting gifts. When Daddy or Mother and expecting or Grandma go away or a relative comes to visit, the first thought and cry of many chil-dren is "What did you bring me?" I once knew a mother who had seen so much of this selfish attitude in a neighboring home as she grew up, that she worked out what I think is an admirable substitute. When she was away, or on a shopping tour, she always purchased something to take to than getting a gift for someone her child as a gift to some oth-

er person. A jigsaw puzzle for small Tommy next door who had the measles brought joy to her little Billy. Shiny red knitting-needles that he might take to Grandma's down the street made this mother's small son beam with happiness. Many a time I returned from town with this mother and saw first-hand just what the childish reaction was, and it warmed the cockles of my heart each time. As a result, this child grew up alert to others wishes and desires and never missed an opportunity to do some thoughtful, unselfish thing. If more mothers would use this system, we would have fewer gimmeeyoungsters and many, many more unselfish adults!

To children who are reared wisely in this respect there is nothing that brings more joy dear to them.



Profitable ... Simple ... Fascinating Here is how you start on your way to WIN one of the

100 BIG CASH PRIZES

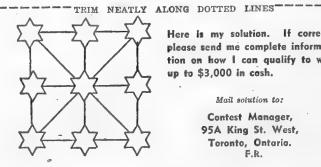
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A genuine contest to build goodwill — the full amount of \$7000 will be distributed at the close of the contest.

Here is all you have to do:

Take the nine numbers from the square on the right and write all of them in the nine stars below. ARRANGE these numbers so that you have as many totals of three num-bers on a straight line as it is possible to equal 15. There may be many different equal 15. There may be many different arrangements that give the same result, but there is only one basic solution. Send in any one arrangement you have decided is correct. It's fun—try it NOW!

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Here is my solution. If correct, please send me complete information on how I can qualify to win up to \$3,000 in cash.

Mail solution to:

Contest Manager, 95A King St. West, Toronto, Ontario. F.R.

Name	(T) and the Thomas and the termination of the termi						
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(Do 1	not enter "Count the Stars" contest more than once.)						

EXTRA MONEY FOR PROMPTNESS SEND YOUR SOLUTION NO

Tips from New Canadians

BY ANNE L. GAETZ

OUR New Canadians have come to us, bringing with them their cherished customs, ideas and ideals. Some of these they will discard in time, substituting something more suited to Canadian life and background. They will, however, cling to that which is worth while.

While our New Canadian sisters have much to learn from us, we Canadian women would do well to learn from them. Some of their prized recipes are well worth trying. Here are some of them.

HOLOPCHI (Ukrainian)

1 cup rice; 1 tsp salt; 1 tin tomato soup; Cabbage head; butter; water.

Boil together till cooked, rice, salt and 2 cups water. Add 1 tin tomato soup, 1 tsp butter. Set to back of stove. Boil one small head of cabbage whole in salted water from 10 to 12 minutes, drain. Take apart the leaves and put 1 tbsp of rice mixture in each leaf. Roll up, starting at the cut end of leaf. Place in covered roaster, and 1 cup boiling water and 1 tbsp of butter. Cover and roast in a hot oven from 20 to 25 minutes. Serve with left over meat or with bacon.

BORSCH (Russian)

4 qts. water; ¾ lb. butter; ½ cup cream; 10 medium sized potatoes; 1 medium sized onion; ¼ tsp tartaric acid; 1 qt. tomatoes; 1 small beet; 1 tsp salt; 1 small head cabbage; sprig of green dill; ¼ tsp pepper.

Put water in kettle and add potatoes, finely cut beet, acid and salt. Boil till vegetables are tender and then add half the butter, half of tomatoes and finely cut cabbage (half). Place in frying pan remainder of the butter, the finely chopped onion, remainder of tomatoes and of finely cut cabbage and fry till vegetables are done. Add the boiled ingredients, cream, dill and pepper to the other ingredients. Boil all together for a few minutes and remove from heat. Liquid in which meat has been cooked may be used in-stead of water for boiling vegetables.

COLD SPINACH SOUP (Jewish)

1 lb. spinach; 1½ qts. boiling water; 2 tbsp sugar; 4 eggs; 1 tsp salt; ¼ tsp tartaric acid.

Wash spinach well, remove stems and cut in very small pieces. Add boiling water and allow to boil for ½ hr. and add tartaric acid. Remove from heat. Beat eggs well with salt, and add soup gradually to the eggs, stirring constantly. Cool. Eat cold with sweet or sour cream. Sugar can be added if liked. Green onions or sliced cucumbers can also be added after liquid cools. Keeps for weeks in refrigerator. Good for the sick.

YOK GAR MEIN (Chinese)

1 cup chicken broth; 1 egg; Minced ham; 1 cup cooked noodles; Cooked white of chicken; Green onion.

Heat broth, add noodles and bring to boiling point. When serving, top with slices of white chicken and poached egg. Sprinkle with minced ham and fine cut green onion. Serves one. Nice for sick or jaded appetite.

COCK-A-LEEKIE SOUP (Scotch)

1 small boiling fowl; 1 onion; 1 small bunch young leeks; 1 carrot; parsley; 2 ounces rice; 1 turnip; 2 cloves; salt and pepper.

Disjoint fowl, put in large stew pan add sufficient water to cover well, add salt and let come to a boil. Add diced carrots, and turnips, chopped onion and cloves. Remove fowl when tender and strain broth, (should measure about 3 pints). Trim, wash leeks and cut into 1-inch pieces. Add to broth, also add rice previously washed and parboiled. Season to taste and boil for ½ hr. Add half of fowl to soup, the remainder to be used some other way. Before serving add 1 tsp. chopped parsley and pepper to taste. Serve chicken in the soup.

FISKI BOLLUR (Icelandic)

 $1\frac{1}{2}$ lbs. cod fillets; 1 egg; 1 tsp. mace; $\frac{3}{4}$ cup bread crumbs; 1 tsp. salt; $\frac{1}{4}$ tsp. allspice; 2 tbsp. melted butter; $\frac{1}{2}$ tsp. pepper; $\frac{1}{2}$ cup milk.

Mince fish fillets to a fine pulp and add other ingredients. Beat hard, form into balls and fry in hot fat. Serve with curry sauce and rice.

POTATO BALLS

(Scandinavian)

2 qts. ground potatoes (raw); 1 tsp. salt; Flour; ¼ tsp. thyme; ¼ tsp. pepper.

Add enough flour to mixture so that it can be rolled into balls. Drop into boiling water and boil about ½ hr. Serve while hot with pork or butter.

KOLDOLMAR (Swedish)

1 large cabbage; 1 cup rice; ½ tsp. allspice; 1½ lbs meat, minced; 1 tsp. salt; 1 onion, minced.

Parboil cabbage, boil rice and rinse, then mix with minced meat. Add salt, allspice and onion. Place a tbsp. of this mixture on a cabbage leaf and roll like a jelly roll, starting from the cut end and securing each tightly with thread. Roll in flour and brown slightly in hot fat. When all are nicely browned, cover with boiling water, cover and boil gently down to a thick gravy.

BAKED SALT HERRING (Danish)

3 salted herring; 3 tbsp. fine bread crumbs; 3/4 cup cream; 1 large yellow onion, cut fine; 1 tbsp. butter. Clean out fillets and soak in cold, water 12 hrs. Wipe, remove bones. Place the onion in the bottom of buttered bake dish, on this place the fish, sprinkle with dry bread crumbs, dot with butter and add cream. Bake in moderate oven 30 minutes. Serve with potatoes baked in skins.

HUTSPOT (Dutch)

3 lbs. carrots; 1 lb. short ribs; 2½ tbsp. lard or butter; 2 lbs. potatoes; beef or pork; salt; pepper; 3 lbs. onions.

Cut up carrot and onion and cook with meat about 1 hr. Put raw potatoes in bottom of saucepan, add lard, salt, pepper, then carrots, meat and cooking water. When potatoes are cooked, take out the meat, mash vegetables altogether, cut meat in pieces and add to helpings.

SOUP DUMPLINGS

(Norwegian)

2 tbsp. butter; 1 cup milk; seasoning; 1 cup flour; 2 eggs. Melt butter, add flour, mix well, add milk and stir to thick paste. Cool. Beat eggs separately, add yolks then whites. Season with salt and nutmeg or parsley. Drop in small pieces into soup and bring to a boil.

FRICOT ACADIEN

(Old Quebec)

1/4 lb. salted pork; 7 potatoes cut in fours; Dumplings; 1 fowl or rabbit cut in pieces; 1 small onion minced; Salt, pepper and savoury; 2 tbsp. shortening

Take large pan and cook salt pork and onions until brown. Add 3 qts. water and bring to boil, then add fowl, pepper, savoury. Cook slowly for 2½ hrs, add potatoes, cook ¼ hr., add dumplings, cover and cook 15 minutes more.

DUMPLINGS:

2 tbsp. shortening; 1½ cups sifted flour; Pinch salt; 2 tbsp. butter; 1 tsp. baking powder; water to make soft.

Stir, add to boiling stew 1 tbsp. at a time.

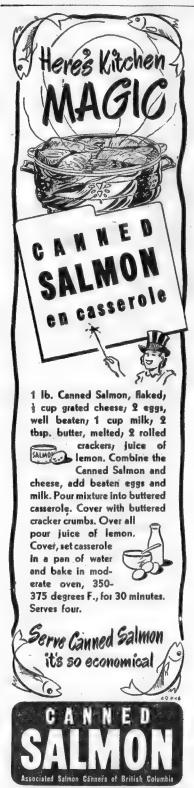
Food does not have to be fancy to be nutritious. Both your health and your pocket-book will benefit if you purchase and eat the plain foods—cooked whole grain cereals, whole wheat bread, milk, eggs, raw and cooked vegetables and fruit, fish and various kinds of meat.

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Dr. Dennis' amazingly fast relief — D. D. D. Prescription — did the trick. World popular, this pure, cooling, liquid medication speeds peace and comfort from cruel itching caused by eczema, pimples, rashes, athlete's foot and other itch troubles. Trial bottle. 35e. First application checks even the most intense itch or money back. Ask druggist for D. D. D. Prescription (ordinary or extra strength) now.

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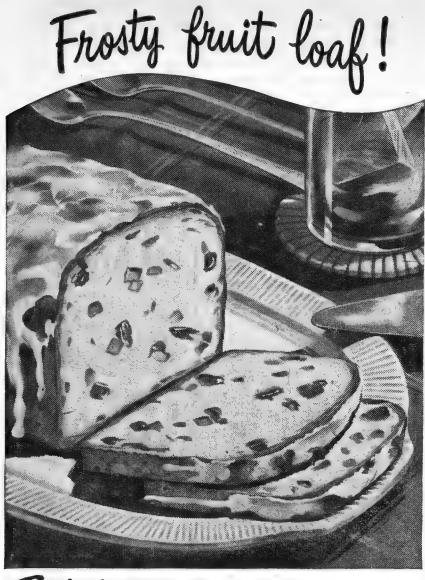
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So light and luscious - made with marvellous new fast DRY yeast!

• This is the kind of treat that makes men-folks wave their arms and say: "When will you bake some more?"

And you can plan plenty more sumptuous yeast bakings, once you have in your pantry a supply of the wonderful new Fleischmann's DRY Yeast!

Yes, this grand new yeast keeps fresh and full-strength on your pantry shelf. Unlike old-fashioned perishable yeast, it never lets you down through loss of strength. Keeps vital and active, till you're ready to bake!

If you bake at home, you can really go to town now with hot rolls, buns, desserts, and bread! No change in recipes: one envelope of the new Dry yeast equals one cake of fresh yeast. Get several weeks' supply of Fleischmann's Royal Fast Rising Dry Yeast and make this tempting Frosty Fruit Loaf tomorrow sure!

- FROSTY FRUIT LOAF -**Makes 3 Loaves**

Measure into large bowl

2/3 cup lukewarm water

2 teaspoons granulated sugar and stir until sugar is dissolved. Sprinkle with contents of

2 envelopes Fleischmann's Royal Fast Rising Dry, Yeast

Let stand 10 minutes, THEN stir well. In the meantime, scald

2/3 cup milk Remove from heat and stir in -

1/2 cup granulated sugar

6 tablespoons shortening Cool to lukewarm and add to yeast mix-

3 well-beaten eggs

3 cups once-sifted bread flour and beat until smooth; stir in

3 cups mixture of washed and dried seedless raisins, quartered candied cherries and slivered mixed candied peels

Work in 🕖

3 cups more once-sifted

Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set

dough in warm place, free from draught. Let rise until doubled in bulk. Punch down dough and divide into 3 equal portions; form into smooth balls. Shape into loaves; place in well-greased bread pans (4½" x 8½", top inside measure and 2¾" deep). Grease tops. Cover and let rise until doubled in bulk. Bake in moderate oven, 350°, 45-50 minutes. Cool and ice with Plain Icing.

PLAIN ICING

Combine 1/2 cup sifted icing sugar 2 teaspoons milk 1/8 teaspoon vanilla

and beat until smooth.



LET'S ASK AUNT SAL

questions came to my desk regarding home made soap. One lady asked why her's crumbled apart and another was troubled because a sort of scum rose in the water when her home made soap was used. Since then a great many fine letters have come in from practical soap makers. From these letters I'm quoting the following information. Hope it will clear up the difficulties mentioned above. I'm especially going. to thank Mrs. A. L. T. of Nipawin, Sask. for the fine explicit letter she wrote me on soap-making. She states that the reason that home made soap separates is because there is too much grease and lye and not enough water. And when a film of grease rises to the sur-face of the suds again the reason is 'too much grease for the amount of water.' Mrs. T. con-Mrs. T. concludes her letter by this recipe for soap. 5 gallons soft clean water, one-10 lb. honey pail melted beef fat, one pkg. of your favorite soap flakes, 2 cans lye. Method: Dissolve lye in cold water in the container (she uses old boiler). When warm add grease and pkg. soap flakes. Boil slowly $2\frac{1}{2}$ hours from time it starts to 'roll'. Stir often in case it sticks. Set off and let cool overnight. Next day turn out and cut. It will shrink a bit when dry.

Question: When should I apply icing on a cake to make sure it will not fall off a little later on? This question applies to both icing made with confectionery sugar and boiled sevenminute icing. (Mrs. A.L.T., Nipawin, Sask.)

Answer: Seeing this lady was the same one who gave us such good advice re. soap making we hope we can help her out on her problem. If you are sure a cake will all be eaten within a few hours, then it does not matter if the cake is not entirely cool before frosting it. It will taste good anyway even if it soaks a wee bit into the cake. But if it is a large cake and you want it still nice next day you have to be more careful. Here is a trick I've found very good. After you've iced it, sprinkle a little icing sugar all over the top it will gradually soak in and prevent the icing from coming off. Be sure the cake is entirely cool . . . and to make sure of this cool the cake on a wire rack so the air can circulate all through and round it. My best cooking book tells me that is the only sure way to cool your cake. One trick I like a lot when placing boiled icing on a cake is this: Stop beating the icing just before it is 'stiff enough'...put on cake and place the iced cake into a warm oven to bake on the icing a little bit. Very tasty and it stays on too. A too-stiff boiled icing is one that comes off easily. And one more thing all cooked icings must be cool before applying. It is too-warm icing that comes

few months back several off next morning. Hope I've helped you some.

> Question: How to mend some small chipped off spots on an enamel stove . . . (An old question that must be brought up again).

> Answer: M.W. writes me that I've been misinformed when I stated that sink enamel paint takes days to dry. She says there is now a new paint on the market that she used to repaint her sink and it dries so rapidly you can hardly keep up with it. She suggests that this would likely be fine for the chipped stove. I was pleased to hear about this new product . . . I-haven't met up with it yet. So I'd advise the lady who sent in this question to consult some paint dealers and see if they stock it.

Question: We have bought a second hand range that is fine except for some places where the paint is scratched off. would sink paint be satisfactory to use on this or would it turn it yellow? (Mrs. A.M., Prelate, Sask.).

Answer: Again I say You had better consult some reliable paint dealers either in person or by mail and see what he would advise.

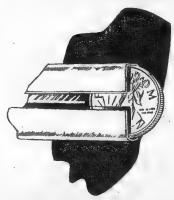
Question: How can I remove red fingernail polish from a linen towel? (Mrs. E.L.K.).

Answer: I forget whether I

handled this problem in the column or not. It is such a frequent question that I think I'd better touch on it again. The saf-est stain remover for all types of cloth is amyl acetate (banana oil to you and me). It is safe for even rayons.

Note: All readers are invited to send in their home making problems to this column. Just address your letters Aunt Sal c/o Farm and Ranch Review, Calgary, Alberta. There is no charge for this service but if you wish a private reply enclose a stamped self-addressed envel-

COIN PREVENTS SNAGGING



OPEN-MESH curtains slip easily over sections of flat, telescoping rods when you wedge a coin into the end of the larger rod section. The contour of that portion of the coin which projects prevents snagging of the soft, open-mesh material.

By Courtesy of Popular Mechanics

One of the best defences against disease is cleanliness. Germs detest soap.



For several months we have world wherein the key virtues are endurance and patience.

Cold itself, if regarded merely as a thermometrical thing, is not deserving of praise by diarist or muse. It reduces otherwise civilized creatures to plotting for a good place near the stove, to eating prodigious heatforming meals for cold resistance, and to the dosing with vitamin capsules as vigilance against germs.

Cowper, the 18th century poet, asked, "Does not the sun shine in winter?" Yes, indeed, it does, especially in Alberta, which he and his contemporaries Even in the never heard of. sharpest winter there is beauty in our shining days; compensation for the discomforts of icy regime when a great, golden day of surpassing loveliness creeps into the calendar. If March struggles in with extra early crows and warm hints of birds and grass, the crabbed, weathercroaking old-timers insist that winter is only playing cat and mouse, lurking and ready to pounce again. But the young and unheeding, the incurable op-timists among us, report that cautious gophers are peeping out of their holes, and rejoice in the rare, gentle warmth and sunshine.

Such veterans as I, know that it is only false Spring at best, that winter has not yet surrendered, but I love this still,

clear morning set in a mystery been living in a cold, hard of soft, bluish haze through which come waves of golden sunlight.

I have seen many such mornings hovering between winter and spring. Walking along the beaten track between white banks that guide our paths and trails I saw a flock of chickadees cavorting among the bushes. Their acrobatic powers, quick turnings upside down and every sideway, were astonishing. It is a wonder how their tiny hearts can keep beating in the icy winds, or their little bodies be warm, in spite of fluffed-out feathers, when there is little opportunity to fill their stomachs. They flitted about with a kind of lively, fearless excitement, and I felt I liked the little birds as I never did before. I understood why St. Francis, in the 12th century, was filled with love for the wild birds of Assisi, and why they in turn, so loved him as their friend. In an era not known for consideration to beast and bird, he besought his Emperor, to forever protect the wild birds and make provision for wheat and other grains to be thrown outside the cities and castles every year on Christmas Thinking thus of St. Dav. Francis and his medæval benevolence, a hauntingly pleasant, modern note came to mind. It was announced the other day in one of our city newspapers that certain merchants would, if requested, give free to their customers, a pound package of wild not be properly sterilized.

bird seed. A humane touch not often encountered in the commercialism of today.

I might have headed this page as "Stroll on a March Morning. What a comfort and beauty there is in commonplace, ordinary things, even in uncertain March, now blowing cold, now warm.

Ah Spring, hurry! Hurry home! 0 0

Mending Hints

1. Use the sewing machine where possible - especially on cottons.

2. Keep your equipment and scraps of materials together in

a convenient place.

3. Ravel out a thread of material if necessary to match the weight and color. Pull the thread out of the side of a wide If only seam in the garment. short threads are available, use a long needle, make the stitches on the needle, thread it and pull it through.

4. Do not use knots in mending. Start with a tiny back stitch or several of these back stitches. An Anchor stitch may also be made by taking a tiny stitch and then one over this at

right angles.

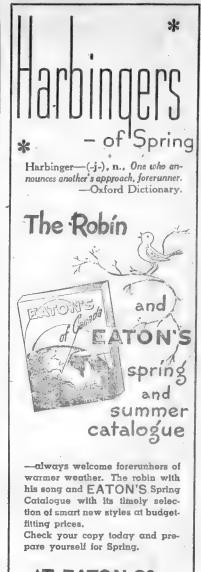
5. Use a crochet hook for mending runs in sweaters or

loosely woven fabrics.

Place a piece of tape or cloth under holes made when a button is torn off. Machine stitch back and forth over the hole until the tape is secure and the hole is covered by stitching.

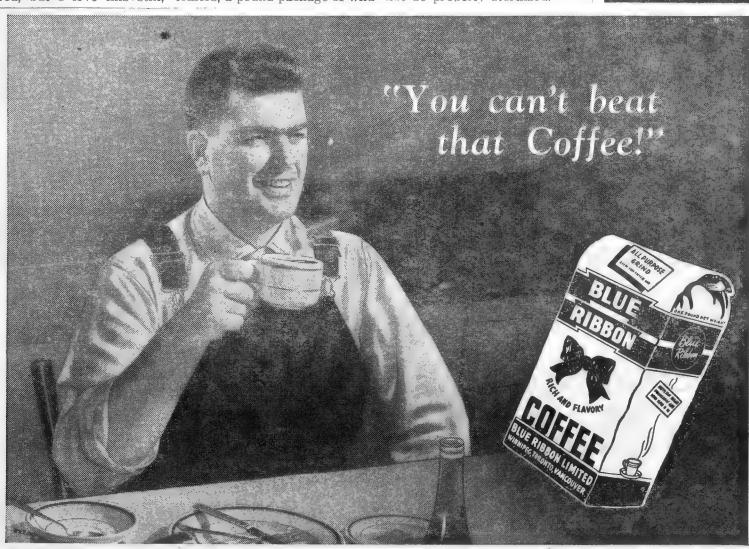
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Cracked and chipped dishes, cups and drinking glasses should be discarded. They can-



T. EATON COM CANADA

EATON'S







AUNT SAL SUGGESTS

Because the blustery March winds,

Force you to stay inside, I've gathered up these useful tips

And all of them I've tried!

NOTICE that last line friends . . I mean it every word. Because of the contents of several of your letters of late, I think I'd better speak in my own behalf and assure you that unless I admit it I never include any hints in this column that I haven't put to a practical test in my own home making routine. I'm not an expert ... simply an average housewife living in an average rural home: and I always say, "If I can do a thing successfully, so can the rest of

Because I had to miss my chat to you last month many of the questions and comments that would have appeared in print will have to be omitted, but your queries will all be answered by private letters. By next month I hope I'll have my department running more smoothly again and all interested readers will find a good assortment of hints to help them

day by day.

During the past nine months since I have been endeavoring to find out the 'why' and 'how to many of your home making difficulties, the two questions that brought forth the largest response related to (1) Home made cheese (2) home made soap. In last December's issue I did promise to send out recipes for the former to anyone who sent me in a stamped, self ad-dressed envelope. When I made that promise I never dreamed that hundreds of western home makers had a craving for home made cheese. Honestly I was just swamped with requests. So I had to retract my promise and refer you to this issue instead. Hope you will forgive me and be as understanding in this matter as you have been in so many others.

And now for the CHEESE!

I admit now right out loud that I have NOT tried one of these recipes myself but everyone has come to me from some rural homemaker who has tried it with good success. I've copied the recipes very carefully and from the large variety of recipes sent to me I've tried to choose those that differed somewhat from others.

HOME MADE CHEESE FROM WIWA HILL, Saskatchewan

Mrs. H. O. who sent in this recipe states that she has used this recipe a lot and her mother before her.

Let 2 gallons of sour milk come to cottage cheese and use the cheese so formed. Add 1/2 cup butter and 3 tsp. soda. Let stand for couple hours then put on stove and add 2 tsp. salt, ½ cup sour cream, ½ tsp. butter coloring. Cook until smooth. Let stand for 2 weeks for best eating, though it can be edible next day.

HOME MADE CHEESE FROM VIRDEN, Manitoba

Mrs. M. P. who sent this in remarks that this is very easy to prepare and is ready to use very soon. It is a bit different in that it calls for mustard and pimento and is prepared in double boiler.

Make 2 gallons sour milk into cottage cheese. Put dry curds into top double boiler. Add following: tblsp. butter, ½ cup sour cream, 1 scant tsp. butter coloring, 1/2 tsp. soda, 2 tsp. salt, ½ tsp. mustard, dash of pimento (optional). stirring all the time until it is smooth (about ½ hour). Turn into mould and put in cool place. This soon sets and is delicious.

HOME MADE CHEESE FROM BURDETT, Alberta

Mrs.-L. W. who sent this in tells us this is made from skim milk and this should suit so many readers who specified they wanted that kind. Let 2 gallons of skim milk sour. Heat until curds separate. Let simmer for ½ hour, cutting with knife. Strain through muslin, let drip over night and allow to dry. Place curds into pan and to each quart of this add the following: ½ cup butter, 1 tsp. soda. Mix with hands and let stand for 2 hours (it is transparent by this time). Place in double boiler over slow heat. When slightly warm add 2/3 cup rich sour cream, 2 tsp. salt, 1 tsp. butter coloring. Keep stirring (you'll find it stringy at first but it will soon smooth out.) The time of cooking is 45 minutes. Pour into glass or china mould and let stand over night. Take from mould and wrap in waxed paper. Store in cool place to ripen about 2 weeks. This makes lovely soft cheese similar to what you buy.

HOME MADE CHEESE FROM WETASKIWIN, Alberta

Mrs. A. C. who sent this in says it came from a Danish lady originally and is called 'Danish Cheese' (naturally). It is one of the few cheese recipes I received that called for rennet . . . yet I had always thought all cheeses required rennet. This is a very large sized batch I would say, but perhaps you are good enough at fractions to cut the ingredients down proportionately.

10 gallons of milk (1/4 whole milk and % skim). Place on stove and heat to 85 to 90 F. (I use my wash boiler). Take from stove and add 1 tsp. cheese rennet and 1 tsp. cheese coloring. Stir and then cover and let stand for $\frac{1}{2}$ hour. Cut with knife both ways, then cover again and let stand for 5 minutes. Whey will have separated some so drain off as much

as you can ... stirring and draining in turn until all whey is drained off. Mix 4 tblsps. salt into it. Put into a form covered with cheesecloth. Cover with a board and press with a 20 lb. weight. Leave cheese in press over night... then store in cool place. This can be used in couple days, but is better to wait longer. (If it should become mouldy take it up and wash in salt water. Do same if cheese becomes too dry.)"

There, friends, I hope you find one of the above recipes to your taste. Bye bye for now ... and every good

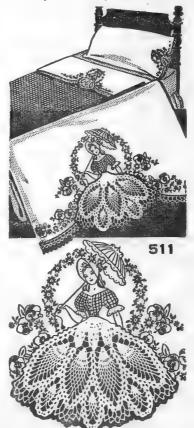
COLANDER COVER



To keep grease from splattering from a frying pan when you are unable to find a pot cover of the right size, place an ordinary colander over the top of the pan. Inverted as shown in the drawing, the colander provides an effective cover that will prevent staining the range and protect your hands from burns.

By Courtesy of Popular Mechanics

Doubly Lovely



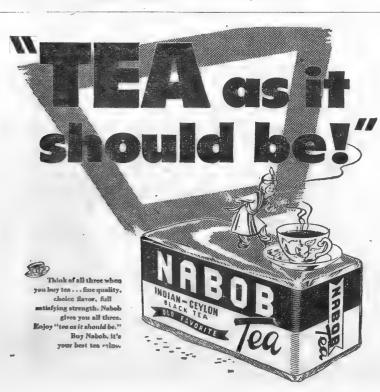
THE nicest things about your house! These dainty linens are fun to do, too, with crocheted skirts and simple embroidery!

Varied needlework Pattern 511; transfer of a 10½ x 18; two 8½ x 15inch motifs; crochet directions.

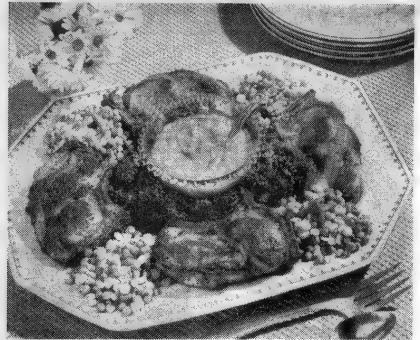
Laura Wheeler's improved pattern måkes needlework so simple with its charts, photos and concise directions.

TWENTY-FIVE in coins (stamps cannot be accepted) for this pattern to Farm and Ranch Review, Needlecraft Dept., Calgary, Alberta. Print plainly PATTERN NUMBER, your NAME and AD-DRESS.

Send your order to Farm and Ranch Review, Pattern Dept., Calgary, Alberta.



Winter meat suggestions



Pork Chops and Apples are always a good combination and when raisins are added, the result is super! Serve on hot platter with piles of mixed vegetables between each two chops. Center with favorite meat sauce in bowl.

By LOUISE PRICE BELL

JUST as soon as cool days come, everyone's appetite grows to great proportions. And when winter, with its icy blasts and chill winds take over, ribsticking meals are definitely in order. No longer can the house-wife "get by" with light, simple meals, and she doesn't want to do so. For she knows that the youngsters and the Man of the House, who have to be in the cold far more than she does, need hearty foods.

Every housewife has favorite recipes, but here are two worth trying, if you haven't tried them already. If your family prefer-ence is for veal, then they are sure to enjoy the Breaded Veal Chops, for which recipe is given. Stuffing pork chops with apples and raisins lifts them out of the regulation stuffed-chop class, and they are sure to become repeat-meals in your home.

Savory Breaded Veal Chops

- 6 veal rib or loin chops
- 1 large egg or 2 small ones
- % cup fine white bread crumbs1 tblsp. dry mustard1 tblsp. salt

- tblsp. brown sugar
- 1 tsp. poultry seasoning
- Dash of pepper 4 tblsp. lard

To make ooating for meat, bread crumbs, mustard, salt, brown sugar, poultry sea-

soning, and pepper. Wipe veal chops with damp cloth, dip in flour, then in egg, which has been beaten and diluted with 2 tblsps. water. Roll in bread crumbs and brown well on both sides in hot lard. If heavy frying pan is used, simply cover chops without adding liquid and cook slowly over a low burner until tender, about 45 minutes. Or add ¼ cup hot water before covering. Serve around cooked cauliflower left whole, and garnished with peas.

Fruit Stuffed Pork Chops

- 6 loin or rib pork chops
- 1% cups dry old bread crumbs
- cup minced onion
- cup finely diced tart apples cup seedless raisins
- tsp. salt
- Dash of pepper and sage
- tsp. sugar. tblsps, melted butter

Have pork chops cut 1 to $1\frac{1}{2}$ ches thick. With a sharp inches thick. knife cut a pocket in each. To make a dressing chop raisins and combine with rest of ingredients. Stuff chops with dressing, fasten opening with toothpicks. Flour chops, brown in hot lard, and season with salt and pepper. Add a few tablespoons water, cover skillet, and cook at simmering temperature for 35 to 40 minutes or until tender. Or bake at 350° F. for Remove tooth-40 minutes. picks before serving.

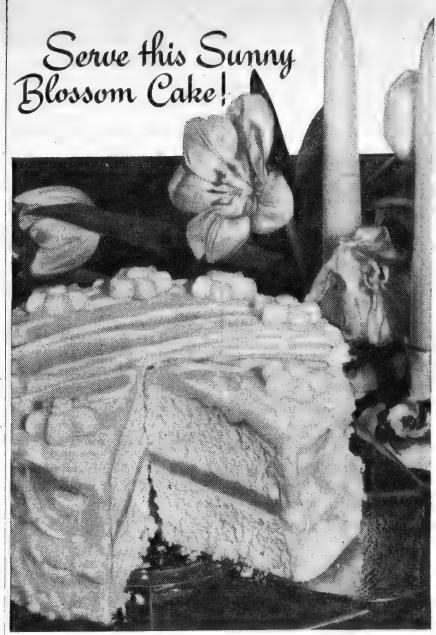
Try these ...

Use disposable handkerchiefs when coughing, sneezing or expectorating. This will do much to halt spread of infection, because numerous infections are spread from the mouth and nose.

for your dainty work, with a metal fruit-jar ring. A rubber band will hold cloth over the

Use for a broken knitting needle: put an eraser on each end; makes a handy stitch hol-It's more efficient than a safety pin - holds more stitches, and you can knit right off this needle-size holder.

When sewing on tiny rick-Make a tiny embroidery hoop rack, lay a narrow strip of transparent wax paper over it and stitch; tear paper off. Paper will keep braid from catching on the pressure foot.



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MAGIC BLOSSOM CAKE

2½ cups sifted cake flour

4 tsps. Magic Baking Powder

3/4 tsp. salt

12 thsps. shortening 1¼ cups fine granu-lated sugar

% cup milk 11/2 tsps. vanilla 4 egg whites

Sift flour, Magic Baking Powder and salt together 3 times. Cream shortening (or mixture of butter and shortening); gradually blend in 1 cup of the sugar and cream well. Measure milk and add vanilla. Very gradually blend about a third of the flavored milk into creamed mixture. Beat egg whites until stiff but not dry; gradually beat in remaining ¼ cup sugar, beating after each addition until mixture will stand in peaks. Add flour mixture to creamed mixture about a quarter at a time, alternating with three additions of the remaining milk and combining lightly after each addition. Add meringue and fold gently until combined. Turn into two 8ⁿ round cake pans which have been greased an lined on the bottom with greased paper. Bake in moderate oven, 350°, 30 to 35 minutes. Put cold cakes together with lemon filling; when set, frost all over with yellow-tinted vanilla butter icing and decorate with candy "blossoms".



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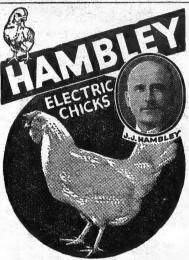
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